

WPNETTOUCH

DIGITAL CONTROL

EclerNet Control Touch-Screen



USER MANUAL



INDEX

HAI	RDV	WARE	4-21
1	IMP	PORTANT REMARK	4
2	IMP	PORTANT SAFETY INSTRUCTIONS	4
3	IMP	PORTANT NOTE	6
4	INT	RODUCTION	6
	4.1	Main features	6
5	INS.	TALLATION AND CONNECTIONS	7
	5.1	Installation	7
	5.2	Connections	8
6	OPE	ERATION	8
7	LOC	CAL CONFIGURATION OF THE UNIT	10
	7.1	Screen Configuration menu	11
	7.2	Device Configuration menu	13
	7.3	Network Configuration menu	14
		7.3.1 Factory Preset Network settings	14
	7.4	Information / Tools menu	15
8	CON	NNECTION TO A UCP SERVER	17
9	PAC	CKAGE CONTENTS	19
10	FUN	NCTION LIST	19
11	FUN	NCTION DIAGRAM	20
12	TEC	CHNICAL FEATURES	21
TP-	NET	PROTOCOL	22-75
13	TP-	NET PROTOCOL INTRODUCTION	23
14	NXA	A DIGITAL AUDIO MANAGER SERIES	27
15	NZA	A MULTICHANNEL AMPLIFIER SERIES	31
16	NPA	A STEREO AMPLIFIER SERIES	32
17		MO88 / MIMO88 CONFERENCE / MIMO88SG / MIMO1212SG (SINGI	•
		TRIX	
18	MIM	MO88SG CONFERENCE DIGITAL MATRIX	40
10	MIN	AO 7272DN / MIMOAOAOCDN DIGITAL MATRIX	11



	19.1 MIMO4040CDN: AEC MANAGEMENT	46
20	DUO-NET PLAYER AUDIO PLAYER & STREAMING RECEIVER	. 48
21	ERROR CODES FOR ECLERNET DEVICES	. 54
	21.1 COMMON ERROR CODES (to all EclerNet - TP-NET compatible devices)	. 54
	21.2 NXA SERIES SPECIFIC ERROR CODES	55
	21.3 NZA SERIES SPECIFIC ERROR CODES	56
	21.4 NPA, MIMO7272DN, MIMO4040CDN, MIMO88 & MIMO88 CONFEREN	NCE
	SERIES SPECIFIC ERROR CODES	57
	21.5 MIMO88SG, MIMO1212SG, MIMO88SG CONFERENCE & MIMO1212	2SG
	CONFERENCE SERIES SPECIFIC ERROR CODES	. 58
	21.6 DUO-NET PLAYER SPECIFIC ERROR CODES	59
22	eMIMO1616 DIGITAL MATRIX	. 60
23	eMIMO1616 ERROR CODES	. 67
24	HUB SERIES DIGITAL ZONER	. 68
25	HUB SERIES ERROR CODES	75



1 IMPORTANT REMARK







WARNING: SHOCK HAZARD - DO NOT OPEN
AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING (If applicable): The terminals marked with symbol of "2" may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

WARNING: To prevent fire or shock hazard, do not expose this equipment to rain or moisture..

WARNING: An apparatus with Class I construction shall be connected to a mains socket-outlet with a protective earthing connection.

2 IMPORTANT SAFETY INSTRUCTIONS

- 1. Read these instructions.
- 2. Keep these instructions
- 3. Heed all warnings
- 4. Follow all instructions
- 5. Do not use this apparatus near water
- 6. Clean only with dry cloth
- **7.** Do not block any ventilation openings Install in accordance with the manufacturer's instructions



- **8.** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- **10.** Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- **12.** Unplug the apparatus during lightening sorts or when unused for long periods of time.
- 13. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- **14.** Disconnecting from mains: switching off the POWER switch all the functions and light indicators of the amplifier will be stopped, but fully disconnecting the device from mains is done unplugging the power cord from the mains input socket. For this reason, it always shall remain readily operable.
- **15.** Equipment is connected to a socket-outlet with earthing connection by means of a power cord.
- **16.** The marking information is located at the bottom of the apparatus.
- **17.** The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.
- 18. This product is for indoor use only.



WARNING: This product must not be discarded, under any circumstance, as unsorted urban waste. Take it to the nearest electrical and electronic waste treatment centre.

NEEC AUDIO BARCELONA, S.L. accepts no liability for any damage that may be caused to people, animal or objects due to failure to comply with the warnings above.



3 IMPORTANT NOTE

Thank you for choosing our WPNETTOUCH EclerNet digital control device.

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its contents before any connection in order to maximize your use and get the best performance from this equipment.

To ensure optimal operation of this device, we strongly recommend that its maintenance be carried out by our authorized Technical Services.

All ECLER products are covered by warranty, please refer to www.ecler.com or the warranty card included with this product for the period of validity and conditions.

4 INTRODUCTION

WPNETTOUCH is a device of the EclerNet family that can be programmed to control one or more networked EclerNet devices; it can even control a full installation, a project combining a multitude of different EclerNet devices: MIMO4040DN, MIMO88, MIMO88SG, MIMO1212SG digital matrices, NXA series digital audio managers, DUO-NET PLAYER units, etc. It is fully programmable through the EclerNet Manager application (*).

(*) Refer to the EclerNet Manager Application manual at www.ecler.com for more information. The EclerNet Manager application is available for download at www.ecler.com.

The WPNETTOUCH is suitable for wall mount installation using the included VESA 75 bracket, or any other VESA75 compatible bracket or stand.

It features a 10" capacitive touch screen displaying the graphic User Control Panels (UCPs) that have been programmed in the EclerNet Manager application software, the ones that the end user will handle to control the installation.

4.1 Main features

- 10.1" IPS screen, 1280x800 pixel resolution
- 16:9 aspect ration
- Capacitive & multitouch panel
- PoE supply compatible
- External power supply compatible (external universal PSU included + multi-plug AC set)
- Ethernet Base-Tx 10/100Mb interface

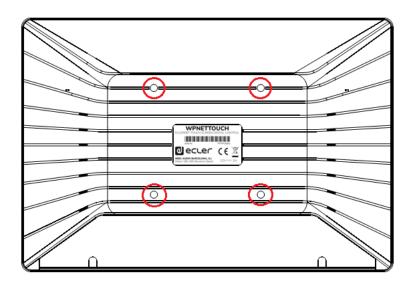


5 INSTALLATION AND CONNECTIONS

5.1 Installation

WPNETTOUCH is suitable for surface and desktop mount:

 Surface mount: a VESA75 wall mount bracket is included with the product. It is composed of two parts: the metal plate that must be assembled to the back panel of the WPNETOTUCH unit, with the 4 included screws, and the metal plate that must be assembled to the wall or surface. Once both plates have been assembled and secured, the unit can be fixed fitting them together and screwing the included security screw, with the included tool for it



Note: the VESA75 standard allows mounting the WPNETTOUCH unit using other third-party VESA75 brackets or stands

Desktop mount: the unit includes a stick shaped support that can be screwed to a
thread at the back panel of the WPNETTOUCH unit, once the back panel
connections cover is removed (fixed by 2 screws). Once installed, this stick allows
to hold the WPNETTOUCH unit on a desktop surface, in a position closed to vertical



5.2 Connections

WPNETTOUCH has 2 connectors available for the EclerNet operation. Both are located behind the rear panel connections plastic cover, fixed to the WPNETTOUCH unit back panel with 2 screws:

- **DC Power**: round jack for connection to the universal power supply provided with the product, 12 VDC, 2A
- Ethernet Port: RJ45 connector of the unit's network communication interface, as well as PoE DC supply compatible, in case the network switch is able to provide PoE (Power over Ethernet) to it. It can be directly connected (point to point) to a single EclerNet device, for its direct and exclusive control, or to an Ethernet switch port belonging to the network the rest of the EclerNet devices of the installation are connected to. The connecting cable can be a standard or crossover CAT5 or higher cable.

6 OPERATION

From EclerNet Manager application, it's possible to create remote control panels for the system (UCPs) to manage one or more MIMO4040DN, MIMO88, MIMO88SG, MIMO1212SG, NXA, DUO-NET PLAYER, etc. units in a networked installation. Each panel can consist of one or more pages that include graphics, text, volume controls, buttons, VU meters, LED indicators, and so on. In this way each remote user may have his own control panel(s) custom tailored to his needs and privileges, and in one system, very simple control panels for some users can coexist with others, more complex and having higher levels of authorization.

Once the UCPs are created, included in an EclerNet project, the network needs a web server for the potential web clients that will control the installation thanks to the UCPs they can recall from the web server, locally visualized and managed. The web server can be one of these types of devices:

- A WPNETTOUCH unit running the EclerNet project previously created with the EclerNet Manager application
- A WPmSCREEN unit running the EclerNet project previously created with the EclerNet Manager application
- A MIMO4040DN matrix running the EclerNet project previously created with the EclerNet Manager application (yes, the MIMO4040DN does include project & UCP webserver features in its engine!)
- A Windows® PC running the created EclerNet Manager project in "Deploy" mode



Note: It is important to note that just one of these devices running the EclerNet Manager application and the same project can exist in a same network, and <u>never more than one at a time</u>, whatever the type, since all would simultaneously "fight" and try to take control of the hardware devices (MIMO4040DN, MIMO88, NXA, etc.) included in the project

As for the web clients, they can be of the following types:

- The main WPNETTOUCH or WPmSCREEN itself (if existing) that acts as a web server can be its own web client
- Additional WPNETTOUCH / WPmSCREEN units, enabled as web clients
- The PC (if existing) that acts as a web server can be its own web client
- Computers, tablets and the like, running an Internet browser (Internet Explorer, Google Chrome, Mozilla Firefox, etc.)
- Devices with Android operating system (tablets, smartphones), running Ecler UCP v2 app
- Devices with Apple iOS (iPad, iPhone, etc.), running Ecler UCP v2 app

Any of them can recover and operate UCPs pointing to the web server's IP address.

Different web clients can simultaneously load different UCPs and operate the project at the same time, each one controlling a part of the system.

Note: please consult the user manual of your EclerNet Manager application at www.ecler.com, chapters USER CONTROL PANELS (U.C.P.) and WPNETTOUCH DEVICE for more information about programming UCP panels and the WPNETTOUCH

Note: the EclerNet Manager application is available on www.ecler.com



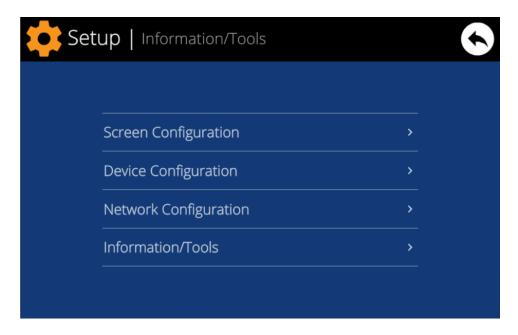
7 LOCAL CONFIGURATION OF THE UNIT

WPNETTOUCH settings and configuration menus can be accessed locally. from the touch screen of the device itself. The same settings are remotely accessible when the screen is under the control of a remote computer running the EclerNet Manager application.

Local access to the configuration menus can be done by clicking on the SETUP icon, from the home page of the unit:

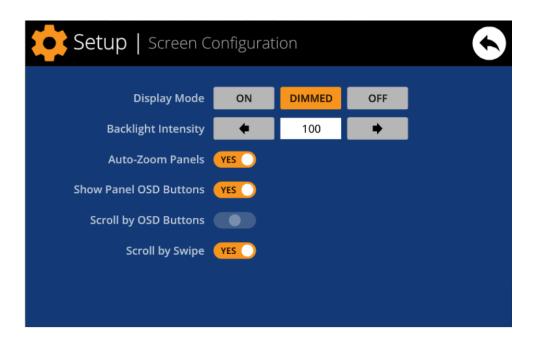


The available configuration menus are the following:





7.1 Screen Configuration menu



This menu allows setting different parameters affecting the displayed items and controls on the screen of the unit:

- Display mode: behavior of the screen dimming in sleep state, after 10 seconds of user inactivity on the touch screen. The available modes are: ON (always lit), DIMMED and OFF (unlit)
- Backlight Intensity: brightness intensity of the screen when it is not in sleep mode.
- Auto-Zoom Panels: when activated, the graphic control panels (UCPs) are automatically resized to match the maximum visible area, no matter the original resolution they were created in the EclerNet Manager project file



• Show Panel OSD Buttons: enables/disables the superimposed display of the navigation buttons in the corners of the displayed UCPs. The top corner buttons can scroll the panel pages (left and right) and the bottom corner buttons access the icon bar:



Note: even when the buttons are not displayed, they can still be active, so that pressing the top corners activates the horizontal scrolling between the panel pages and pressing the bottom corners displays the icon bar. This is an aspect that must be taken into account for the layout of the controls (buttons, sliders, knobs, etc.) on each UCP page during its design; the corners must be as free as possible if these OSD buttons will be used for scrolling between pages (top ones) and always free in the case of the bottom ones (icon bar display).

- **Scroll by OSD Buttons**: enables/disables the scroll action between pages pressing the top corners, even the OSD buttons are hidden
- **Scroll by Swipe**: enables/disables the scroll action between pages with a left or right swipe (press & drag) action on the screen

The icon bar displays new accesses to the horizontal scrolling between the pages of a panel (to the left and right), access to the home page of the unit ("HOME" icon) and exit of the icon bar ("X" icon):





7.2 Device Configuration menu

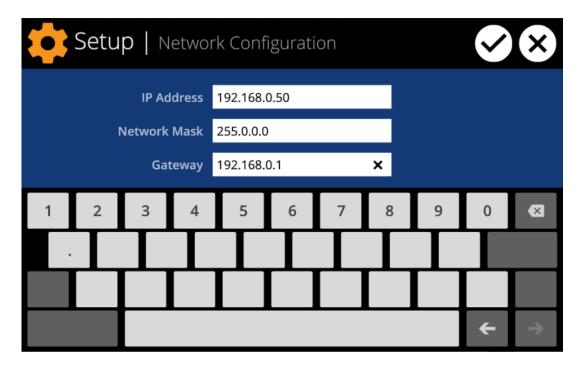


This menu allows adjusting the following parameters of the unit:

- Device Name: name of the device, as seen from other WPNETTOUCH / WPmSCREEN devices, as well as from the EclerNet Manager application
- Device Password: password for the protection of the device against the editing of
 its critical configuration parameters, requested for this purpose if enabled (enabled
 = other than blank password)
- Enable UCP Server: enables/disables the embedded UCP server service of the unit
 - Enabled: the EclerNet project stored in the unit ("Local Project") will be fully functional, taking control of the hardware devices that are included in it (MIMO4040DN, MIMO88, NXA units, etc.) and serving the UCP panels it contains to potential UCP clients on the network
 - Disabled: the EclerNet Local Project is deactivated, releasing the control over all included hardware (MIMO4040DN, MIMO88, NXA units, etc.) and, consequently, also ceasing to serve UCPs for clients
 - Warning: In the disabled status, another device or computer running a project containing all or some of the hardware devices existing in the WPNETTOUCH's Local Project could take control of them. Just one device and project can take control of the same hardware device at the same time, so that units controlled by a device must first be released before trying to control them from another device:
 - From EclerNet Manager, you can release the devices controlled by the computer through the creation of a new project (File -> New Project), or by disconnecting them from the network one by one (right mouse button -> Disconnect)
 - From a WPNETTOUCH / WPmSCREEN, you can release the devices controlled by the unit by setting the Enable UCP Server option on NO.



7.3 Network Configuration menu



This menu allows modifying the network connection parameters of the WPNETTOUCH unit: IP address, network mask and gateway.

Note: neither the WPNETTOUCH nor any other EclerNet device supports the protocol of dynamic allocation of IP addresses (Dynamic Host Configuration Protocol, or DHCP), so it's always necessary to manually assign them static addresses

7.3.1 Factory Preset Network settings

The factory default network settings for EclerNet Manager compatible devices are as follows:

• IP: 192.168.0.100

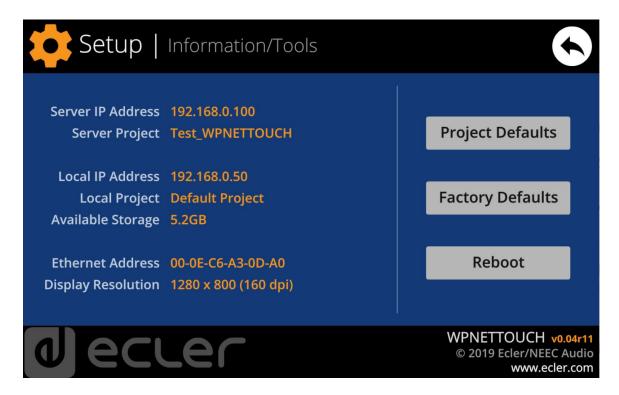
• Mask: 255.255.255.0

• Gate: 192.168.0.1

• UDP Port: 2210



7.4 Information / Tools menu



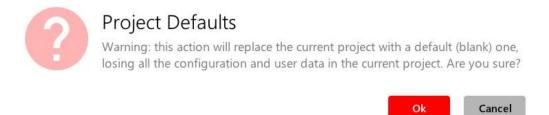
This menu displays the following information:

- Server IP Address: IP address of the UCP server device that the unit is connected
 to, as a UCP client. When the unit is connected to itself as a client, it will show its
 own IP address (= Local IP Address)
- Server Project: name of the project running in the server the unit is connected to as a UCP client (project running on the UCP server of the client)
- Local IP Address: IP Address configured for the WPNETTOUCH unit
- Local Project: name of the project stored in the internal storage space of the WPNETTOUCH unit. This project can be uploaded to the WPNETTOUCH unit using EclerNet Manager software app
- Available Storage: internal storage space available to upload a project file, which would include User Control Panels data and graphics
- Ethernet Address: MAC address of the NIC (network interface card) mounted in the WPNETTOUCH unit
- **Display resolution**: native screen resolution of the IPS panel of the unit (1280 x 800)
- **Firmware version**: shown at the lower right hand side corner (in the above example v0.04r11)



And the following restore / reboot options:

• **Project Defaults:** clears the project in memory, replacing it with a blank project, after warning that the process is irreversible:



• Factory Defaults: clears the entire configuration and all data in the unit, restoring the factory default settings, after warning that the process is irreversible:



Factory Defaults

Warning: this action will bring back this device to its factory defaults. This involves losing your current network configuration, general setup and current project data. Are you sure?

Ok Cancel

• Reboot: reboots the unit:



Reboot

This action will reboot this device, losing network connection for a while and recovering normal performance after the reboot. Are you sure?

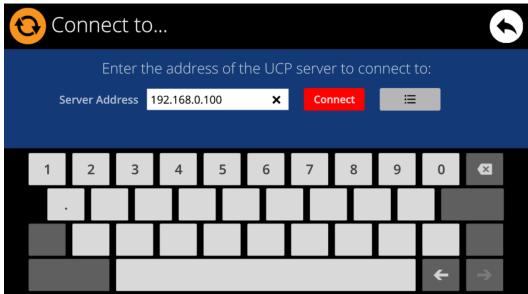
Ok Cancel



8 CONNECTION TO A UCP SERVER

From the home screen of the unit, the connection icon on the upper side of the screen will give access to the Connection page:

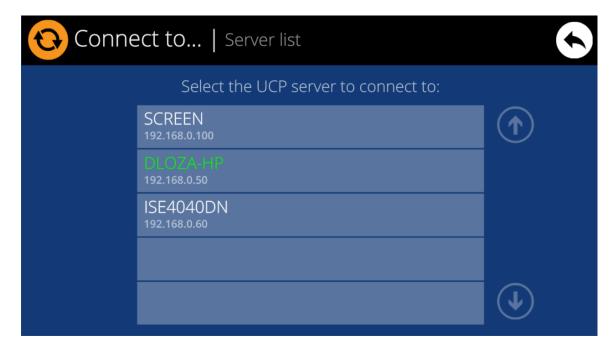




This page allows deciding the UCP server the unit will connect to as a client. The UCP server may be a computer, a MIMO4040DN matrix (yes, it has an embedded UCP server in its engine!) another WPNETTOUCH / WPmSCREEN unit or even the same WPNETTOUCH unit. In any case, the UCP server shall host and run an EclerNet Manager project that includes a series of UCPs which can be remotely managed by any UCP client.



It is possible to directly enter the IP address of the server device, using the touch keyboard displayed on the screen, or to select a device from a list of automatically detected server devices, which is accessed by clicking on the grey button with the list icon to the right of the "Connect" button:



Note: in the list of detected server devices, the name of the WPNETTOUCH unit under control will appear in green (the one matching with the Local IP Address)

After selecting a server unit or an IP address, using either of these two methods, pressing the "Connect" button will confirm the selection and start the process of connecting to the server. If this process is successful, the UCPs that the server makes available for the WPNETTOUCH client will appear on the screen:





9 PACKAGE CONTENTS

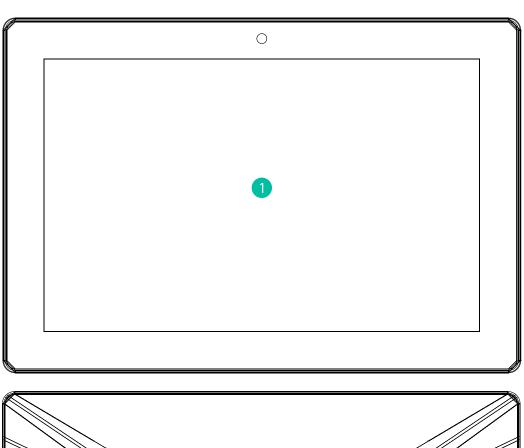
- WPNETTOUCH
- External PSU, universal, multi AC plug
- Wall mount VESA75 bracket + screws set + security screw + tool
- Desktop mount stick-shape support
- Quick User Guide and Warranty Card

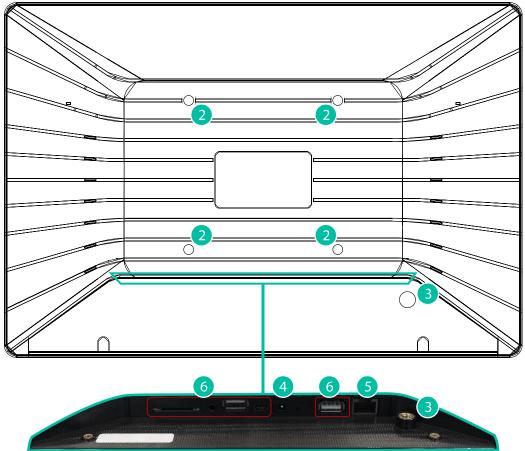
10 FUNCTION LIST

- 1. Multi-touch screen
- 2. VESA75 screw fixation holes
- 3. Desktop mount stick-shape support fixation hole
- 4. Power supply connector
- 5. RJ45 Ethernet Port connector
- 6. Unused connections



11 FUNCTION DIAGRAM







12 TECHNICAL FEATURES

System	
CPU	RK3128 quad core processor, clocked 1.6G
RAM	1GB
ROM	8GB
Screen	
Size	10,1" IPS
Resolution	1280×800
Contrast ratio	1300
Brightness	300cdm2
Screen scale / Display area	16:9 / 218x135mm
Backlight	LED
Touch-panel	Capacitive multi-touch
Network & Connectivity	
Ethernet	Supports PoE
Ethernet port	Ethernet Base-Tx 10/100Mb / 1GB CAT5e o
	better up to 100m.
Power	
External power supply voltage	12VDC
DC current (max)	350mA from 12V External Power Supply Voltage
	125mA from PoE
Mains power consumption	6W
General	
Bracket mounting holes	VESA 75mm
Dimensions WxHxD	260x178x28 mm / 10.2"x7.0"x1.1"
Weight	700 gr / 1.54 lb.
Accessories included	
AC power adapter	100-240VAC 50-60Hz 12V / 2A, multi-plug
•	



TP-NET PROTOCOL

SOFTWARE

Third-Party NET

USER MANUAL



13 TP-NET PROTOCOL INTRODUCTION

The TP-NET protocol lets a client device (control device) get and/or set the values of several parameters of the **EclerNet compatible devices** (MIMO and MIMO SG series digital matrices, DUO-NET PLAYER, NXA digital audio manager series, NZA amplifier series, NPA amplifier series, etc.), like volumes, mutes, alarms, etc. It's as well available for **eMIMO1616 digital matrix**, **HUB series digital zoner**, **MIMO7272DN and MIMO4040CDN digital matrix**.

The communication with these digital audio devices can be established using Ethernet and the UDP/IP transport protocol, always by means of the **5800** UDP port.

A second option for this communication is using the RS-232 interface that some of these compatible devices do also have (MIMO series, DUO-NET PLAYER, NXA series, etc.). In this case, the serial connection must fulfil the following specifications:

 Baud rate: 57600 (fixed, no autonegotiation) for all the devices, except for DUO-NET PLAYER, eMIMO1616, HUB series and MIMO4040CDN, which use 115200 baud rate)

Data bits: 8Parity: NoneStop bits: 1

• Flow control: None

In case the Ecler device has an Euroblock connector for the RS-232 interface, the serial cable wiring, from the device's connector to a standard DB9 serial interface connector, must be the following:

WIRING RS232 – DB9						
RS232 DB9						
Tx	Pin 2 (RxD)					
Rx	Pin 3 (TxD)					
Gnd	Pin 5 (Signal Gnd)					

The protocol is simple and direct, making it easy to read, write and modify the generated code. It is based on messages with no begin and end delimiter: each message is self-delimited by the UDP packet size, which is defined with a maximum of **80 characters**. All the messages must be written in capital letters.

To let some control systems (like CRESTRON®, EXTRON®, AMX®, RTI®, VITY®, MEDIALON®, etc.) process the messages more easily, the EclerNet device adds the character **LF** (0x0A) to the end of each message. This way the client can buffer the



messages to process them, if it's required. The EclerNet device can also handle several messages received in a single message packet by using the LF delimiter.

The available messages are built with one or more fields separated with blank spaces (= blank space):

<TYPE> [PARAM1] [PARAM2] [PARAM3] [PARAM4][LF]

The first field (TYPE) defines the **message type** and then, the required parameters for it (each kind of message requires a given number of parameters). The field **TYPE** can have these values:

- SYSTEM
- GET
- SET
- INC
- DEC
- SUBSCRIBE
- UNSUBSCRIBE
- DATA
- ERROR

At the end of this document you'll find all the available messages and their parameters for each model of the EclerNet compatible devices.

The SYSTEM, GET, SET, INC, DEC, SUBSCRIBE & UNSUBSCRIBE messages can be sent from the client to the EclerNet device. The DATA & ERROR messages can be sent from the device to the client. The only exception is the SYSTEM PING message, that is a SYSTEM type message that is sent from the EclerNet device when the initial message from the client to the device was SYSTEM CONNECT PINGPONG.

The communication (using UDP or RS-232) starts when a client sends the message SYSTEM CONNECT to the EclerNet device. As far as the UDP communication requires no connection (unlike the TCP), the EclerNet device stores this client's IP address, and then uses it as the destination IP address for the messages that it generates (DATA & ERROR). After receiving the SYSTEM CONNECT message, the device dumps its entire configuration using several consecutive DATA messages.



The communication can be terminated by two methods:

- Manually: when the client sends the SYSTEM DISCONNECT message, cancelling all the subscriptions and stopping the DATA & ERROR messages
- Automatically: in case the initial message was SYSTEM CONNECT PINGPONG
 and the client didn't get any SYSTEM PONG message in a period longer than 10
 seconds (presuming a communication breakdown)

The **SET** messages don't have an automatic acknowledgement with a **DATA** message sent from the EclerNet device after it has processed the **SET** command. The client must update the values itself and must send the needed **GET** message if it requires confirmation from the device.

NOTES:

- The numerical values are always integer numbers without +, -, comma or dot symbols.
- [PINGPONG] is an optional parameter used to configure the device-client communication with a periodical check, to see whether the client or the device have terminated it. When configured this way, the device sends a SYSTEM PING once per second, and the client must answer with a SYSTEM PONG message. If anyone doesn't get these messages along a 10 seconds period, the communication will be considered terminated
- <Input Channel> & <Output Channel> are numerical values that identify an input or output channel of the EclerNet device:
- It can be within a [1..8] range for MIMO88 single units (8x8 matrix masters), and [1..16] for MIMO88 couples configured as 16x16 matrix masters
- It can be within a [1..8] range for MIMO88SG units
- It can be within a [1..12] range for MIMO1212SG units
- For the NPA series, <Output Channel> can be within a [1..2] range
- For the NXA and NZA series it can be within the [1..4] or [1..6] range, for 4 or 6 channel amplifiers
- It can be within a [1..16] range for eMIMO1616 units
- It can be within a [1...40] range for MIMO7272DN and MIMO4040CDN
- <Preset Number> is a numerical value that identifies one available Preset stored in the EclerNet device's memory:
- For the MIMO series it can be within the [1..99] range
- For the DUO-NET PLAYER it can be within the [1..20] range
- For the NPA series it can be within the [1..10] range
- For the NXA and NZA series it can be within the [1..5] range
- **Level>**, **Pre Vumeter Level>** y **Post Vumeter Level>** are numerical values in the [0..100] range that define values in a scale equivalent to [-inf..0] dB



- <GPI> & <GPO> are numerical values within the [1..8] range for the MIMO88 configured as 8x8 matrix masters (single units), and [1..16] for MIMO88 couples configured as 16x16 matrix masters. For the NXA series GPI values can be within the [1..4] or [1..6] range, depending on model. For the MIMO7272DN and MIMO4040CDN GPI and GPO values can be within [1..8]
- <GPI Value> is a numerical value within the [0..100] range that indicates the value of an analogue GPI input. For a digital input only 0 or 100 are the possible values
- <GPO Value> is a numerical value within the [0..1] range: it can only be 0 or 1 (opened or closed GPO)
- <Rate> is a numerical value within the [1..10] range that sets the VU-meter refresh rate, or the number of times the vumeters' values are sent per second (by default = 3)
- "<Device Name>" is the device name inside double quotation marks, to allow for names with blank spaces
- <Error ID> is a numerical value for an error code
- "<Error Description>" is a text chain inside double quotation marks, containing an error description
- <Virtual Control> is a numerical value that identifies a Virtual Control in a MIMO or NXA device:
- It can be within a [1A..4A] or [1B..4B] range for NXA 4 ch. Models
- It can be within a [1A..6A] or [1B..6B] range for NXA 6 ch. models
- It can be within a [1..64] range for MIMO88, MIMO88CONF, MIMO88SG, MIMO88SGCONF, MIMO1616, MIMO1616CONF, MIMO1212SG and MIMO1212SGCONF models
- It can be within a [1..80] range for MIMO4040CDN model
- It can be within a [1..160] range for MIMO7272DN model



14 NXA DIGITAL AUDIO MANAGER SERIES

<u>IMPORTANT NOTE:</u> The communication must be started with the client sending <u>the first message</u> SYSTEM CONNECT to the EclerNet device. Otherwise, the commands from the client to the EclerNet device will be ignored. See TP-NET PROTOCOL INTRODUCTION chapter for additional information.

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SYSTEM	CONNECT	[PINGPONG]			Saves the client IP address for responses and then dumps current
					device status (with DATA messages)
	DISCONNECT				Cancel subscriptions and terminates communication
	SUBSCRIPTION_RATE	<rate></rate>			Alive message from device
	PING				Alive message from device
	PONG				Alive ACK message from client
GET	ALL				Dumps current device status (with DATA messages)
	POWER				Gets the Device Power status
	PRESET				Gets the current PRESET
	OLEVEL	<output< td=""><td></td><td></td><td>Gets the current LEVEL of an Output Channel</td></output<>			Gets the current LEVEL of an Output Channel
		Channel>			
	XLEVEL	<input< td=""><td><output< td=""><td></td><td>Gets the current LEVEL of a Matrix point</td></output<></td></input<>	<output< td=""><td></td><td>Gets the current LEVEL of a Matrix point</td></output<>		Gets the current LEVEL of a Matrix point
		Channel>	Channel>		
	OMUTE	<output< td=""><td></td><td></td><td>Gets the current MUTE status of an Output Channel</td></output<>			Gets the current MUTE status of an Output Channel
		Channel>			
	XMUTE	<input< td=""><td><output< td=""><td></td><td>Gets the current MUTE status of a Matrix Point</td></output<></td></input<>	<output< td=""><td></td><td>Gets the current MUTE status of a Matrix Point</td></output<>		Gets the current MUTE status of a Matrix Point
		Channel>	Channel>		
	OVU	<output< td=""><td></td><td></td><td>Gets the VU-meter value of an Output Channel</td></output<>			Gets the VU-meter value of an Output Channel
		Channel>			
	ALARM_PROTECT	<output< td=""><td></td><td></td><td>Gets the Protect alarm status of an Output Channel</td></output<>			Gets the Protect alarm status of an Output Channel
		Channel>			
	ALARM_FAULT	<output< td=""><td></td><td></td><td>Gets the self-diagnosis system alarm status of an Output Channel</td></output<>			Gets the self-diagnosis system alarm status of an Output Channel
		Channel>			



INFO_NAME			Gets the Device Name
INFO_MODEL			Gets the Device Model
INFO_VERSION			Gets the Firmware Version
INFO_MAC			Gets the Device MAC address
VIRTUAL_CONTROL	<virtual Control></virtual 		Gets the Virtual Control value



TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SET	POWER	ON/OFF			Sets the Device Power status
	PRESET	<preset number=""></preset>			Sets the current PRESET
	OLEVEL	<output< td=""><td><level></level></td><td></td><td>Sets the current LEVEL of an Output Channel</td></output<>	<level></level>		Sets the current LEVEL of an Output Channel
		Channel>			
	XLEVEL	<input channel=""/>	<output< td=""><td><level></level></td><td>Sets the current LEVEL of a Matrix point</td></output<>	<level></level>	Sets the current LEVEL of a Matrix point
			Channel>		
	OMUTE	<output< td=""><td>YES/NO</td><td></td><td>Sets the current MUTE status of an Output Channel</td></output<>	YES/NO		Sets the current MUTE status of an Output Channel
		Channel>			
	XMUTE	<input channel=""/>	<output< td=""><td></td><td>Sets the current MUTE status of a Matrix Point</td></output<>		Sets the current MUTE status of a Matrix Point
			Channel>		
	VIRTUAL_CONTROL	<virtual control=""></virtual>	<value></value>		Sets the Virtual Control value (Value can range from 1
					to 100)
INC	OLEVEL	<output< td=""><td><value></value></td><td></td><td>Increases the current LEVEL of an Output Channel by</td></output<>	<value></value>		Increases the current LEVEL of an Output Channel by
		Channel>			Value (Value can range from ±1 to ±100)
	XLEVEL	<input channel=""/>	<output< td=""><td><value></value></td><td>Increases the current LEVEL of a Matrix point by Value</td></output<>	<value></value>	Increases the current LEVEL of a Matrix point by Value
			Channel>		(Value can range from ±1 to ±100)
DEC	OLEVEL	<output< td=""><td><value></value></td><td></td><td>Decreases the current LEVEL of an Output Channel by</td></output<>	<value></value>		Decreases the current LEVEL of an Output Channel by
		Channel>			Value (Value can range from ±1 to ±100)
	XLEVEL	<input channel=""/>	<output< td=""><td><value></value></td><td>Decreases the current LEVEL of a Matrix point by</td></output<>	<value></value>	Decreases the current LEVEL of a Matrix point by
			Channel>		Value (Value can range from ±1 to ±100)
SUBSCRIBE	ALL				Subscribes to all VU-meters
	OVU	<output< td=""><td></td><td></td><td>Subscribes to an Output Channel VU-meter</td></output<>			Subscribes to an Output Channel VU-meter
		Channel>			
UNSUBSCRIBE	ALL				Unsubscribe to all VU-meters
	OVU	<output< td=""><td></td><td></td><td>Unsubscribe to an Output Channel VU-meter</td></output<>			Unsubscribe to an Output Channel VU-meter
		Channel>			
DATA	POWER	ON/OFF			Shows the Device Power status
	PRESET	<preset number=""></preset>			Shows the current PRESET
	OLEVEL	<output< td=""><td><level></level></td><td></td><td>Shows the current LEVEL of an Output Channel</td></output<>	<level></level>		Shows the current LEVEL of an Output Channel
		Channel>			



	XLEVEL	<input channel=""/>	<output Channel></output 	<level></level>	Shows the current LEVEL of a Matrix point
	OMUTE	<output< td=""><td>YES/NO</td><td></td><td>Shows the current MUTE status of an Output Channel</td></output<>	YES/NO		Shows the current MUTE status of an Output Channel
		Channel>			
	XMUTE	<input channel=""/>	<output Channel></output 	YES/NO	Shows the current MUTE status of a Matrix point
	VIRTUAL_CONTROL	<virtual control=""></virtual>	<value></value>		Shows the Virtual Control value
	OVU	<output< td=""><td><pre td="" vumeter<=""><td><post td="" vumeter<=""><td>Shows the VU-meter value of an Output Channel</td></post></td></pre></td></output<>	<pre td="" vumeter<=""><td><post td="" vumeter<=""><td>Shows the VU-meter value of an Output Channel</td></post></td></pre>	<post td="" vumeter<=""><td>Shows the VU-meter value of an Output Channel</td></post>	Shows the VU-meter value of an Output Channel
		Channel>	Level>	Level>	
	ALARM_PROTECT	<output< td=""><td>ON/OFF</td><td></td><td>Shows the Protect alarm status of an Output Channel</td></output<>	ON/OFF		Shows the Protect alarm status of an Output Channel
		Channel>			
	ALARM_FAULT	<output< td=""><td>ON/OFF</td><td></td><td>Shows the self-diagnosis system alarm status of an</td></output<>	ON/OFF		Shows the self-diagnosis system alarm status of an
		Channel>			Output Channel
	INFO_NAME	" <device name="">"</device>			Shows the Device Name
	INFO_MODEL	<device model=""></device>			Shows the Device Model
	INFO_VERSION	<firmware< td=""><td></td><td></td><td>Shows the Firmware Version</td></firmware<>			Shows the Firmware Version
		Version>			
	INFO_MAC	<device mac<="" td=""><td></td><td></td><td>Shows the Device MAC address</td></device>			Shows the Device MAC address
		address>			
ERROR	<error id=""></error>	" <error< td=""><td></td><td></td><td>Informs about an error</td></error<>			Informs about an error
		Description>"			

Note: INC and DEC commands are replied with a DATA command from the device with the resulting LEVEL value, after it has been increased or decreased. When the INC or DEC command tries to adjust a LEVEL value beyond its minimum or maximum limits, no reply (DATA command) will be produced.



15 NZA MULTICHANNEL AMPLIFIER SERIES

<u>IMPORTANT NOTE:</u> The communication must be started with the client sending <u>the first message</u> SYSTEM CONNECT to the EclerNet device. Otherwise, the commands from the client to the EclerNet device will be ignored. See TP-NET PROTOCOL INTRODUCTION chapter for additional information.

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SET	POWER	ON/OFF			Sets the Device Power status
	PRESET	<preset number=""></preset>			Sets the current PRESET
	OLEVEL	<output channel=""></output>	<level></level>		Sets the current LEVEL of an Output Channel
	OMUTE	<output channel=""></output>	YES/NO		Sets the current MUTE status of an Output
					Channel
SUBSCRIBE	ALL				Subscribes to all VU-meters
	OVU	<output channel=""></output>			Subscribes to an Output Channel VU-meter
UNSUBSCRIBE	ALL				Unsubscribe to all VU-meters
	OVU	<output channel=""></output>			Unsubscribe to an Output Channel VU-meter
DATA	POWER	ON/OFF			Shows the Device Power status
	PRESET	<preset number=""></preset>			Shows the current PRESET
	OLEVEL	<output channel=""></output>	<level></level>		Shows the current LEVEL of an Output Channel
	OMUTE	<output channel=""></output>	YES/NO		Shows the current MUTE status of an Output
					Channel
	OVU	<output channel=""></output>	<pre td="" vumeter<=""><td><post td="" vumeter<=""><td>Shows the VU-meter value of an Output</td></post></td></pre>	<post td="" vumeter<=""><td>Shows the VU-meter value of an Output</td></post>	Shows the VU-meter value of an Output
			Level>	Level>	Channel
	ALARM_PROTECT	<output channel=""></output>	ON/OFF		Shows the Protect alarm status of an Output
					Channel
	INFO_NAME	" <device name="">"</device>			Shows the Device Name
	INFO_MODEL	<device model=""></device>			Shows the Device Model
	INFO_VERSION	<firmware version=""></firmware>			Shows the Firmware Version
	INFO_MAC	<device mac<="" td=""><td></td><td></td><td>Shows the Device MAC address</td></device>			Shows the Device MAC address
		address>			
ERROR	<error id=""></error>	" <error< td=""><td></td><td></td><td>Informs about an error</td></error<>			Informs about an error
		Description>"			



16 NPA STEREO AMPLIFIER SERIES

<u>IMPORTANT NOTE:</u> The communication must be started with the client sending <u>the first message</u> SYSTEM CONNECT to the EclerNet device. Otherwise, the commands from the client to the EclerNet device will be ignored. See TP-NET PROTOCOL INTRODUCTION chapter for additional information.

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SYSTEM	CONNECT	[PINGPONG]			Saves the client IP address for responses and then dumps current device
					status (with DATA messages)
	DISCONNECT				Cancel subscriptions and terminates communication
	SUBSCRIPTION_RATE	<rate></rate>			Alive message from device
	PING				Alive message from device
	PONG				Alice ACK message from client
GET	ALL				Dumps current device status (with DATA messages)
	POWER				Gets the Device Power status
	PRESET				Gets the current PRESET
	OLEVEL	<output< td=""><td></td><td></td><td>Gets the current LEVEL of an Output Channel</td></output<>			Gets the current LEVEL of an Output Channel
		Channel>			
	OMUTE	<output< td=""><td></td><td></td><td>Gets the current MUTE status of an Output Channel</td></output<>			Gets the current MUTE status of an Output Channel
		Channel>			
	OVU	<output< td=""><td></td><td></td><td>Gets the VU-meter value of an Output Channel</td></output<>			Gets the VU-meter value of an Output Channel
		Channel>			
	ALARM_PROTECT	<output< td=""><td></td><td></td><td>Gets the Protect alarm status of an Output Channel</td></output<>			Gets the Protect alarm status of an Output Channel
		Channel>			
	ALARM_THERMAL	<output< td=""><td></td><td></td><td>Gets the Thermal alarm status of an Output Channel</td></output<>			Gets the Thermal alarm status of an Output Channel
		Channel>			
	ALARM_LOAD	<output< td=""><td></td><td></td><td>Gets the Load alarm status of an Output Channel</td></output<>			Gets the Load alarm status of an Output Channel
		Channel>			
	ALARM_VOLTAGE				Gets the Voltage alarm status of the Device
	INFO_NAME				Gets the Device Name
	INFO_MODEL				Gets the Device Model
	INFO_VERSION				Gets the Firmware Version



INFO_MAC Gets the Device MAC address

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SET	POWER	ON/OFF			Sets the Device Power status
	PRESET	<preset number=""></preset>			Sets the current PRESET
	OLEVEL	<output channel=""></output>	<level></level>		Sets the current LEVEL of an Output
					Channel
	OMUTE	<output channel=""></output>	YES/NO		Sets the current MUTE status of an
					Output Channel
SUBSCRIBE	ALL				Subscribes to all VU-meters
	OVU	<output channel=""></output>			Subscribes to an Output Channel VU-
					meter
UNSUBSCRIBE	ALL				Unsubscribe to all VU-meters
	OVU	<output channel=""></output>			Unsubscribe to an Output Channel VU-
					meter
DATA	POWER	ON/OFF			Shows the Device Power status
	PRESET	<preset number=""></preset>			Shows the current PRESET
	OLEVEL	<output channel=""></output>	<level></level>		Shows the current LEVEL of an Output
					Channel
	OMUTE	<output channel=""></output>	YES/NO		Shows the current MUTE status of an
					Output Channel
	OVU	<output channel=""></output>	<pre td="" vumeter<=""><td><post td="" vumeter<=""><td>Shows the VU-meter value of an</td></post></td></pre>	<post td="" vumeter<=""><td>Shows the VU-meter value of an</td></post>	Shows the VU-meter value of an
			Level>	Level>	Output Channel
	ALARM_PROTECT	<output channel=""></output>	ON/OFF		Shows the Protect alarm status of an
					Output Channel
	ALARM_THERMAL	<output channel=""></output>	ON/OFF		Shows the Thermal alarm status of an
					Output Channel
	ALARM_LOAD	<output channel=""></output>	ON/OFF		Shows the Load alarm status of an
					Output Channel
	ALARM_VOLTAGE	ON/OFF			Shows the Voltage alarm status of the
					Device



	INFO_NAME	" <device name="">"</device>		Shows the Device Name
	INFO_MODEL	<device model=""></device>		Shows the Device Model
	INFO_VERSION	<firmware version=""></firmware>		Shows the Firmware Version
	INFO_MAC	<device mac<="" th=""><th></th><th>Shows the Device MAC address</th></device>		Shows the Device MAC address
		address>		
ERROR	<error id=""></error>	" <error description="">"</error>		Informs about an error



17 MIMO88 / MIMO88 CONFERENCE / MIMO88SG / MIMO1212SG (SINGLE) DIGITAL MATRIX

<u>IMPORTANT NOTE:</u> The communication must be started with the client sending <u>the first message</u> SYSTEM CONNECT to the EclerNet device. Otherwise, the commands from the client to the EclerNet device will be ignored. See TP-NET PROTOCOL INTRODUCTION chapter for additional information.

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SYSTEM	CONNECT	[PINGPONG]			Saves the client IP address for responses and
					then dumps current device status (with DATA
					messages)
	DISCONNECT				Cancel subscriptions and terminates
					communication
	SUBSCRIPTION_RATE	<rate></rate>			Alive message from device
	PING				Alive message from device
	PONG				Alive ACK message from client
GET	ALL				Dumps current device status (with DATA
					messages)
	PRESET				Gets the current PRESET
	ILEVEL	<input channel=""/>			Gets the current LEVEL of an Input Channel
	OLEVEL	<output< td=""><td></td><td></td><td>Gets the current LEVEL of an Output Channel</td></output<>			Gets the current LEVEL of an Output Channel
		Channel>			
	XLEVEL	<input channel=""/>	<output< td=""><td></td><td>Gets the current LEVEL of a Matrix point</td></output<>		Gets the current LEVEL of a Matrix point
			Channel>		
	IMUTE	<input channel=""/>			Gets the current MUTE status of an Input
					Channel
	OMUTE	<output< td=""><td></td><td></td><td>Gets the current MUTE status of an Output</td></output<>			Gets the current MUTE status of an Output
		Channel>			Channel
	XMUTE	<input channel=""/>	<output< td=""><td></td><td>Gets the current MUTE status of a Matrix Point</td></output<>		Gets the current MUTE status of a Matrix Point
			Channel>		
	IVU	<input channel=""/>			Gets the VU-meter value of an Input Channel



OVU	<output< th=""><th></th><th></th><th>Gets the VU-meter value of an Output Channel</th></output<>			Gets the VU-meter value of an Output Channel
	Channel>			
GPI	<input/>			Gets the current value of a General Purpose
				Input
GPO	<output></output>			Gets the current value of a General Purpose
				Output (not valid for MIMO88SG /
				MIMO1212SG)
INFO_NAME				Gets the Device Name
INFO_MODEL				Gets the Device Model
INFO_VERSION				Gets the Firmware Version
INFO_MAC				Gets the Device MAC address
VIRTUAL_CONTROL	<virtual control=""></virtual>			Gets the Virtual Control value
	GPI GPO INFO_NAME INFO_MODEL INFO_VERSION INFO_MAC	Channel> GPI <input/> GPO <output> INFO_NAME INFO_MODEL INFO_VERSION INFO_MAC</output>	Channel> GPI <input/> GPO <output> INFO_NAME INFO_MODEL INFO_VERSION INFO_MAC</output>	GPI <input/> GPO <output> INFO_NAME INFO_MODEL INFO_VERSION INFO_MAC</output>



TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SET	PRESET	<preset number=""></preset>			Sets the current PRESET
	ILEVEL	<input channel=""/>	<level></level>		Sets the current LEVEL of an Input Channel
	OLEVEL	<output channel=""></output>	<level></level>		Sets the current LEVEL of an Output Channel
	XLEVEL	<input channel=""/>	<output< td=""><td><level></level></td><td>Sets the current LEVEL for a Matrix point</td></output<>	<level></level>	Sets the current LEVEL for a Matrix point
			Channel>		
	IMUTE	<input channel=""/>	YES/NO		Sets the current MUTE status of an Input
					Channel
	OMUTE	<output channel=""></output>	YES/NO		Sets the current MUTE status of an Output
					Channel
	XMUTE	<input channel=""/>	<output< td=""><td>YES/NO</td><td>Sets the current MUTE status for a Matrix Point</td></output<>	YES/NO	Sets the current MUTE status for a Matrix Point
			Channel>		
	GPO	<output></output>	<gpo value=""></gpo>		Sets the current value for a General Purpose
					Output
					(not valid for MIMO88SG)
	VIRTUAL_CONTROL	<virtual control=""></virtual>	<value></value>		Sets the Virtual Control value (Value can range
					from 1 to 100)
INC	ILEVEL	<input channel=""/>	<value></value>		Increases the current LEVEL of an Input Channel
					by Value (Value can range from ± 1 to ± 100)
	OLEVEL	<output channel=""></output>	<value></value>		Increases the current LEVEL of an Output
					Channel by Value (Value can range from ±1 to
					±100)
	XLEVEL	<input channel=""/>	<output< td=""><td><value></value></td><td>Increases the current LEVEL of a Matrix point by</td></output<>	<value></value>	Increases the current LEVEL of a Matrix point by
			Channel>		Value (Value can range from ±1 to ±100)
DEC	ILEVEL	<input channel=""/>	<value></value>		Decreases the current LEVEL of an Input
					Channel by Value (Value can range from ±1 to
					±100)
	OLEVEL	<output channel=""></output>	<value></value>		Decreases the current LEVEL of an Output
					Channel by Value (Value can range from ±1 to
					±100)



	XLEVEL	<input channel=""/>	<output< th=""><th><value></value></th><th>Decreases the current LEVEL of a Matrix point by</th></output<>	<value></value>	Decreases the current LEVEL of a Matrix point by
			Channel>		Value (Value can range from ±1 to ±100)
SUBSCRIBE	ALL				Subscribes to all VU-meters
	IVU	<input channel=""/>			Subscribes to an Input Channel VU-meter
	OVU	<output channel=""></output>			Subscribes to an Output Channel VU-meter
UNSUBSCRIBE	ALL				Unsubscribe to all VU-meters
	IVU	<input channel=""/>			Unsubscribe to an Input Channel VU-meter
	OVU	<output channel=""></output>			Unsubscribe to an Output Channel VU-meter



TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
DATA	PRESET	<preset number=""></preset>			Shows the current PRESET
	ILEVEL	<input channel=""/>	<level></level>		Shows the current LEVEL of an Input
					Channel
	OLEVEL	<output channel=""></output>	<level></level>		Shows the current LEVEL of an Output
					Channel
	XLEVEL	<input channel=""/>	<output channel=""></output>	<level></level>	Shows the current LEVEL for a Matrix
					point
	IMUTE	<input channel=""/>	YES/NO		Shows the current MUTE status of an
					Input Channel
	OMUTE	<output channel=""></output>	YES/NO		Shows the current MUTE status of an
					Output Channel
	XMUTE	<input channel=""/>	<output channel=""></output>	YES/NO	Shows the current MUTE status for a
					Matrix Point
	VIRTUAL_CONTROL	<virtual control=""></virtual>	<value></value>		Shows the Virtual Control value (Value can
					range from 1 to 100)
	IVU	<input channel=""/>	<pre td="" vumeter<=""><td><post td="" vumeter<=""><td>Shows the VU-meter value of an Input</td></post></td></pre>	<post td="" vumeter<=""><td>Shows the VU-meter value of an Input</td></post>	Shows the VU-meter value of an Input
			Level>	Level>	Channel
	OVU	<output channel=""></output>	<pre td="" vumeter<=""><td><post td="" vumeter<=""><td>Shows the VU-meter value of an Output</td></post></td></pre>	<post td="" vumeter<=""><td>Shows the VU-meter value of an Output</td></post>	Shows the VU-meter value of an Output
			Level>	Level>	Channel
	GPI	<input/>	<gpi value=""></gpi>		Shows the current value of a General
					Purpose Input
	GPO	<output></output>	<gpo td="" value)<=""><td></td><td>Shows the current value of a General</td></gpo>		Shows the current value of a General
					Purpose Output. (not valid for
					MIMO88SG)
	INFO_NAME	" <device name="">"</device>			Shows the Device Name
	INFO_MODEL	<device model=""></device>			Shows the Device Model
	INFO_VERSION	<firmware version=""></firmware>			Shows the Firmware Version
	INFO_MAC	<device mac<="" td=""><td></td><td></td><td>Shows the Device MAC address</td></device>			Shows the Device MAC address
		address>			
ERROR	<error id=""></error>	" <error description="">"</error>			Informs about an error



18 MIMO88SG CONFERENCE DIGITAL MATRIX

<u>IMPORTANT NOTE:</u> The communication must be started with the client sending <u>the first message</u> <u>SYSTEM CONNECT</u> to the EclerNet device. Otherwise, the commands from the client to the EclerNet device will be ignored. See <u>TP-NET PROTOCOL INTRODUCTION</u> chapter for additional information.

This MIMO88SG CONFERENCE firmware version shares the same hardware with the standard MIMO88SG unit, just uploading the CONFERENCE firmware version to it, and shares as well the same TP-NET commands in the above table, adding to them these new ones:

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
GET	GATE				Gets the current status of the NOISE GATE for inputs 1 to 8
	AUTOMIXER				Gets the current status of the AUTOMIXER function for
					inputs 1 to 8
SUBSCRIBE	GATE				Subscribes to the status of the NOISE GATE for inputs 1 to 8
	AUTOMIXER				Subscribes to the status of the AUTOMIXER function for
					inputs 1 to 8
UNSUSCRIBE	GATE				Unsubscribes to the status of the NOISE GATE for inputs 1
					to 8
	AUTOMIXER				Unsubscribes to the status of the AUTOMIXER function for
					inputs 1 to 8
DATA	GATE	s1 s2 s3 s4 s5 s6			Shows the current NOISE GATE status (0 = open / 1 =
		s7 s8			closed) for the 8 inputs channels (s1 to s8, status of the gate
					for inputs 1 to 8)
	AUTOMIXER	s1 s2 s3 s4 s5 s6			Shows the current status for input channels in the
		s7 s8			Automixer section (0 = disabled or bellow threshold in the
					automixer / 1 = enabled and beyond threshold, but queued,
					not in the automatic mix $/ 2 = $ enabled, beyond threshold
					and into the automatic mix) for the 8 inputs channels (s1 to
					s8, status of the automixer function for inputs 1 to 8)



19 MIMO 7272DN / MIMO4040CDN DIGITAL MATRIX

<u>IMPORTANT NOTE:</u> The communication must be started with the client sending <u>the first message</u> SYSTEM CONNECT to the EclerNet device. Otherwise, the commands from the client to the EclerNet device will be ignored. See TP-NET PROTOCOL INTRODUCTION chapter for additional information.

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SYSTEM	CONNECT	[MASTER]	[PINGPONG]	[ONCE]	Saves the client IP address for responses and
					then dumps current device status (with DATA
					messages)
	DISCONNECT				Cancel subscriptions and terminates
					communication
	SUBSCRIPTION_RATE	<rate></rate>			Alive message from device
	PING				Alive message from device
	PONG				Alive ACK message from client
	PING INTERVAL	<1-1000>			Ping Interval, in seconds
GET	ALL				Dumps current device status (with DATA
					messages)
	PRESET				Gets the current PRESET
	ILEVEL	<input channel=""/>			Gets the current LEVEL of an Input Channel
	OLEVEL	<output channel=""></output>			Gets the current LEVEL of an Output Channel
	XLEVEL	<input channel=""/>	<output< td=""><td></td><td>Gets the current LEVEL of a Matrix point</td></output<>		Gets the current LEVEL of a Matrix point
			Channel>		
	IMUTE	<input channel=""/>			Gets the current MUTE status of an Input
					Channel
	XMUTE	<input channel=""/>	<output< td=""><td></td><td>Gets the current MUTE status of a Matrix</td></output<>		Gets the current MUTE status of a Matrix
			Channel>		Point
	IVU	<input channel=""/>			Gets the VU-meter value of an Input Channel
	OVU	<output channel=""></output>			Gets the VU-meter value of an Output
					Channel



GPI	<input/>		Gets the current value of a General Purpose
			Input
GPO	<output></output>		Gets the current value of a General Purpose
			Output
INFO_NAME			Gets the Device Name
INFO_MODEL			Gets the Device Model
INFO_VERSION			Gets the Firmware Version
INFO_MAC			Gets the Device MAC address
VIRTUAL_CONTROL	<virtual control=""></virtual>		Gets the Virtual Control value



TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SET	PRESET	<preset number=""></preset>			Sets the current PRESET
	ILEVEL	<input channel=""/>	<level></level>		Sets the current LEVEL of an Input Channel
	OLEVEL	<output channel=""></output>	<level></level>		Sets the current LEVEL of an Output Channel
	XLEVEL	<input channel=""/>	<output< td=""><td><level></level></td><td>Sets the current LEVEL for a Matrix point</td></output<>	<level></level>	Sets the current LEVEL for a Matrix point
			Channel>		
	IMUTE	<input channel=""/>	YES/NO		Sets the current MUTE status of an Input
					Channel
	XMUTE	<input channel=""/>	<output< td=""><td>YES/NO</td><td>Sets the current MUTE status for a Matrix Point</td></output<>	YES/NO	Sets the current MUTE status for a Matrix Point
			Channel>		
	GPO	<output></output>	<gpo value=""></gpo>		Sets the current value for a General Purpose
					Output
	VIRTUAL_CONTROL	<virtual control=""></virtual>	<value></value>		Sets the Virtual Control value (Value can range
					from 1 to 100)
INC	ILEVEL	<input channel=""/>	<value></value>		Increases the current LEVEL of an Input Channel
					by Value (Value can range from ± 1 to ± 100)
	OLEVEL	<output channel=""></output>	<value></value>		Increases the current LEVEL of an Output
					Channel by Value (Value can range from ±1 to
					±100)
	XLEVEL	<input channel=""/>	<output< td=""><td><value></value></td><td>Increases the current LEVEL of a Matrix point by</td></output<>	<value></value>	Increases the current LEVEL of a Matrix point by
			Channel>		Value (Value can range from ±1 to ±100)
DEC	ILEVEL	<input channel=""/>	<value></value>		Decreases the current LEVEL of an Input
					Channel by Value (Value can range from ± 1 to
					±100)
	OLEVEL	<output channel=""></output>	<value></value>		Decreases the current LEVEL of an Output
					Channel by Value (Value can range from ±1 to
					±100)
	XLEVEL	<input channel=""/>	<output< td=""><td><value></value></td><td>Decreases the current LEVEL of a Matrix point by</td></output<>	<value></value>	Decreases the current LEVEL of a Matrix point by
			Channel>		Value (Value can range from ±1 to ±100)
SUBSCRIBE	ALL				Subscribes to all VU-meters
	IVU	<input channel=""/>			Subscribes to an Input Channel VU-meter



	OVU	<output channel=""></output>	Subscribes to an Output Channel VU-meter
UNSUBSCRIBE	ALL		Unsubscribe to all VU-meters
	IVU	<input channel=""/>	Unsubscribe to an Input Channel VU-meter
	OVU	<output channel=""></output>	Unsubscribe to an Output Channel VU-meter



TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
DATA	PRESET	<preset number=""></preset>			Shows the current PRESET
	ILEVEL	<input channel=""/>	<level></level>		Shows the current LEVEL of an Input
	21 = 1/=		<u> </u>	_	Channel
	OLEVEL	<output channel=""></output>	<level></level>		Shows the current LEVEL of an Output
					Channel
	XLEVEL	<input channel=""/>	<output channel=""></output>	<level></level>	Shows the current LEVEL for a Matrix
					point
	IMUTE	<input channel=""/>	YES/NO		Shows the current MUTE status of an
					Input Channel
	XMUTE	<input channel=""/>	<output channel=""></output>	YES/NO	Shows the current MUTE status for a
					Matrix Point
	VIRTUAL_CONTROL	<virtual control=""></virtual>	<value></value>		Shows the Virtual Control value (Value can
					range from 1 to 100)
	IVU	<input channel=""/>	<pre td="" vumeter<=""><td><post td="" vumeter<=""><td>Shows the VU-meter value of an Input</td></post></td></pre>	<post td="" vumeter<=""><td>Shows the VU-meter value of an Input</td></post>	Shows the VU-meter value of an Input
			Level>	Level>	Channel
	OVU	<output channel=""></output>	<pre td="" vumeter<=""><td><post td="" vumeter<=""><td>Shows the VU-meter value of an Output</td></post></td></pre>	<post td="" vumeter<=""><td>Shows the VU-meter value of an Output</td></post>	Shows the VU-meter value of an Output
			Level>	Level>	Channel
	GPI	<input/>	<gpi value=""></gpi>		Shows the current value of a General
					Purpose Input
	GPO	<output></output>	<gpo td="" value)<=""><td></td><td>Shows the current value of a General</td></gpo>		Shows the current value of a General
					Purpose Output.
	INFO_NAME	" <device name="">"</device>			Shows the Device Name
	INFO_MODEL	<device model=""></device>			Shows the Device Model
	INFO_VERSION	<firmware version=""></firmware>			Shows the Firmware Version
	INFO_MAC	<device mac<="" td=""><td></td><td></td><td>Shows the Device MAC address</td></device>			Shows the Device MAC address
		address>			
	INFO IPLIST				Shows the list of clients connected to the
					Device. The message will contain a list
					including ClientNumber ClientIP Client
					Port (separated by blank characters)



19.1 MIMO4040CDN: AEC MANAGEMENT

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
GET	AEC_MIC_LEVEL	<room></room>	<mic></mic>		Gets the current LEVEL of a local mic from a given AEC room
	AEC_MIC_MUTE	<room></room>	<mic></mic>	YES/NO	Gets the current MUTE status of a local mic from a given AEC room
	AEC_MIC_VU	<room></room>	<mic></mic>		Gets the VU-meter value of a of a local mic from a given AEC room. It returns the Pre Fader and Post Fader values
	AEC_SPK_LEVEL	<room></room>	<speaker></speaker>		Gets the current LEVEL of a local loudspeaker from a given AEC room
	AEC_SPK_MUTE	<room></room>	<speaker></speaker>	YES/NO	Gets the current MUTE status of a local loudspeaker from a given AEC room
	AEC_SPK_VU	<room></room>	<speaker></speaker>		Gets the VU-meter value of a local loudspeaker from a given AEC room. It returns the Pre Fader and Post Fader values
SET	AEC_MIC_LEVEL	<room></room>	<mic></mic>	<value></value>	Sets the current LEVEL of a local mic from a given AEC room
	AEC_MIC_MUTE	<room></room>	<mic></mic>	YES/NO	Sets the current MUTE status of a local mic from a given AEC room
	AEC_SPK_LEVEL	<room></room>	<speaker></speaker>	<value></value>	Sets the current LEVEL of a local loudspeaker from a given AEC room
	AEC_SPK_MUTE	<room></room>	<speaker></speaker>	YES/NO	Sets the current MUTE status of a local loudspeaker from a given AEC room
	AEC_RESET	<room></room>			Reset the AEC algorithm (default parameters) from a given AEC room



INC	AEC_MIC_LEVEL	<room></room>	<mic></mic>	<value></value>	Increases the current LEVEL of a local mic from a given AEC room (Value can range from ±1 to ±100)
	AEC_SPK_LEVEL	<room></room>	<speaker></speaker>	<value></value>	Increases the current LEVEL of a local loudspeaker from a given AEC room (Value can range from ±1 to ±100)
DEC	AEC_MIC_LEVEL	<room></room>	<mic></mic>	<value></value>	Decreases the current LEVEL of a local mic from a given AEC room (Value can range from ±1 to ±100)
	AEC_SPK_LEVEL	<room></room>	<speaker></speaker>	<value></value>	Decreases the current LEVEL of a local loudspeaker from a given AEC room (Value can range from ±1 to ±100)
SUBSCRIBE	AEC_MIC_VU	<room></room>	<mic></mic>		Subscribe to all VU-meters of a local mic from a given AEC room
	AEC_SPK_VU	<room></room>	<speaker></speaker>		Subscribe to all VU-meters of a local loudspeaker from a given AEC room
UNSUBSCRIBE	AEC_MIC_VU	<room></room>	<mic></mic>		Unsubscribe to all VU-meters of a local mic from a given AEC room
	AEC_SPK_VU	<room></room>	<speaker></speaker>		Unsubscribe to all VU-meters of a local loudspeaker from a given AEC room



20 DUO-NET PLAYER AUDIO PLAYER & STREAMING RECEIVER

<u>IMPORTANT NOTE:</u> The communication must be started with the client sending <u>the first message</u> SYSTEM CONNECT to the EclerNet device. Otherwise, the commands from the client to the EclerNet device will be ignored. See TP-NET PROTOCOL INTRODUCTION chapter for additional information.

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SYSTEM	CONNECT	[PINGPONG]			Saves the client IP address for responses
					and then dumps current device status (with
					DATA messages)
	DISCONNECT				Cancel subscriptions and terminates
					communication
	SUBSCRIPTION_RATE	<rate></rate>			Alive message from device
	PING				Alive message from device
	PONG				Alive ACK message from client
	PING_INTERVAL				
GET	ALL				Dumps current device status (with DATA
					messages)
	PRESET_INDEX				Gets the current PRESET number
	PRESET_NAME				Gets the current PRESET name
	DEVICE_NAME				Gets the Device Name
	INFO_MODEL				Gets the Device Model
	INFO_VERSION				Gets the Firmware Version
	INFO_MAC				Gets the Device MAC address
	INFO_IPLIST				Gets the IP parameters of the connected
					client devices
	IP_CONFIG				Shows the DUO-NET unit's current IP
					configuration
	PLAYER_NAME	<player:a b=""></player:a>			Gets the PLAYER A or B NAME
	PLAYER_MUTE	<player:a b=""></player:a>			Gets the MUTE status of PLAYER A or B
	PLAYER_VOLUME	<player:a b=""></player:a>			Gets the VOLUME level of PLAYER A or B



PLAYER_VUMETER	<player:a b=""></player:a>	Gets the VUMETER level of PLAYER A or B
PLAYER_TIME	<player:a b=""></player:a>	Gets PLAYER A or B elapsed, remaining
		and total time of the current media playback
PLAYER_TRANSPORT	T_STATUS <player:a b=""></player:a>	Gets PLAYER A or B current playback
		status
PLAYER_PLAYLIST_IN	NDEX	Gets PLAYER A or B loaded playlist
		number, from the 99 available in the playlist
		bank
PLAYER_PLAYLIST_N	AME <player:a b=""></player:a>	Gets PLAYER A or B loaded playlist name,
		from the 99 available in the playlist bank
PLAYER_QUEUE_INFO	O <player:a b=""></player:a>	Gets PLAYER A or B current playback
		queue position (index) and total number of
		items in it (count)
PLAYER_PLAY_MODE	<player:a b=""></player:a>	Gets PLAYER A or B current playback order
		mode
PLAYER_REPEAT_MC	DDE <player:a b=""></player:a>	Gets PLAYER A or B current playback
		repeat mode
PLAYER_FADE_MODE	E <player:a b=""></player:a>	Gets PLAYER A or B current tracks playback
		transition mode
PLAYER_VARISPEED	<player:a b=""></player:a>	Gets PLAYER A or B current playback
		tempo variation value
PRIORITY_STATUS	<priority:1 2=""></priority:1>	Gets PRIORITY MODULE 1 or 2 status
PLAYER_ITEM_TAGS	<player:a b=""></player:a>	Gets PLAYER A or B current playback
		ALIAS, TITLE, ARTIST, ALBUM and NAME
		tags



SET	PRESET_INDEX	<120>		Sets the current PRESET number
	PLAYER_MUTE	<player:a b=""></player:a>	<yes no=""></yes>	Sets the MUTE status of PLAYER A or B
	PLAYER_VOLUME	<player:a b=""></player:a>	<0100>	Sets the VOLUME level of PLAYER A or B
	PLAYER_TRANSPORT_CONTR	<player:a b=""></player:a>	<stop p<="" play="" td=""><td>Sets PLAYER A or B transport controls</td></stop>	Sets PLAYER A or B transport controls
	OL		AUSE/NEXT/PF	
			EV>	
	PLAYER_PLAYLIST_INDEX	<player:a b=""></player:a>	<199>	Sets (loads) PLAYER A or B playlist number,
				from the 99 available in the playlist bank
	PLAYER_PLAY_MODE	<player:a b=""></player:a>	<sequential,< td=""><td>Sets PLAYER A or B playback order mode</td></sequential,<>	Sets PLAYER A or B playback order mode
			RANDOM>	
	PLAYER_REPEAT_MODE	<player:a b=""></player:a>	<play_all pl<="" td=""><td>Sets PLAYER A or B current playback repeat</td></play_all>	Sets PLAYER A or B current playback repeat
			AY_ONE/REPE	mode
			AT_ALL/REPEA	
			T_ONE>	
	PLAYER_FADE_MODE	<player:a b=""></player:a>	<none td="" xfade<=""><td>Sets PLAYER A or B current tracks playback</td></none>	Sets PLAYER A or B current tracks playback
			FADE/HFADE>	transition mode
	PLAYER_VARISPEED	<player:a b=""></player:a>	<varispeed:-< td=""><td>Sets the current Varispeed (track's tempo)</td></varispeed:-<>	Sets the current Varispeed (track's tempo)
			5050>	variation value, from -50% to +50%
INC	PLAYER_VOLUME	PLAYER:A/B>	<0100>	INCreases the current VOLUME of a PLAYER, a
				value from ±1 to ±100
	PLAYER_VARISPEED	PLAYER:A/B>	<varispeed:-< td=""><td>INCrements the current Varispeed (track's</td></varispeed:-<>	INCrements the current Varispeed (track's
			5050>	tempo) variation value, from -50% to +50%
DEC	PLAYER_VOLUME	PLAYER:A/B>	<0100>	DECreases the current VOLUME of a PLAYER, a
				value from ±1 to ±100
	PLAYER_VARISPEED	PLAYER:A/B>	<varispeed:-< td=""><td>DECrements the current Varispeed (track's</td></varispeed:-<>	DECrements the current Varispeed (track's
			5050>	tempo) variation value, from -50% to +50%
SUBSCRIBE	ALL			Subscribes to all VU-meters and player times
	PLAYER_VUMETER	PLAYER:A/B>		Subscribes to the VUMETER level of PLAYER A
				or B
	PLAYER_TIME	PLAYER:A/B>		Subscribes to the TIME values (elapsed,
				remaining, total) of PLAYER A or B
UNSUSCRIBE	ALL			Unsubscribes to all VU-meters and player times



Р	PLAYER_VUMETER	PLAYER:A/B>		Unsubscribes to the VUMETER level of PLAYER
				A or B
Р	PLAYER_TIME	PLAYER:A/B>		Unsubscribes to the TIME values (elapsed,
				remaining, total) of PLAYER A or B

DATA	PRESET_INDEX	<120>			Shows the current PRESET
					number
	PRESET_NAME	" <name>"</name>			Shows the current PRESET
					name
	DEVICE_NAME	" <name>"</name>			Shows the Device Name
	INFO_MODEL	<device model=""></device>			Shows the Device Model
	INFO_VERSION	<firmware< td=""><td></td><td></td><td>Shows the Firmware</td></firmware<>			Shows the Firmware
		Version>			Version
	INFO_MAC	<device mac<="" td=""><td></td><td></td><td>Shows the Device MAC</td></device>			Shows the Device MAC
		address>			address
	INFO_IPLIST	<n></n>	<ip></ip>	<port></port>	Shows the IP parameters of
					the connected client
					devices, where N is an
					incremental number
					assigned to each one,
					followed by the IP:port it
					has Example with 2 clients :
					DATA INFO_IPLIST 1
					192.168.1.2 55229
					DATA INFO_IPLIST 2
					192.168.1.2 55231



IP_CONFIG	IP>	<port></port>	<netmask></netmask>	<gateway></gateway>	Shows the DUO-NET unit's current IP configuration. Example:
					DATA IP_CONFIG 192.168.0.6 5000
					255.255.0.0 192.168.0.1
PLAYER_NAME	<player:a b=""></player:a>	" <name>"</name>		1	Shows the PLAYER A or B NAME
PLAYER_MUTE	<player:a b=""></player:a>	<mute:yes no=""></mute:yes>			Shows the MUTE status of PLAYER A or B
PLAYER_VOLUME	<player:a b=""></player:a>	<vol:0100></vol:0100>			Shows the VOLUME level of PLAYER A or B
PLAYER_VUMETER	<player:a b=""></player:a>	<vol:0100></vol:0100>			Shows the VUMETER leve of PLAYER A or B
PLAYER_TIME	<player:a b=""></player:a>	<elapsed></elapsed>	<remain></remain>	<total></total>	Shows PLAYER A or B elapsed, remaining and total time of the current media playback
PLAYER_TRANSPORT_STATUS	<player:a b=""></player:a>	<status:stopped playing<="" td=""><td>/PAUSE></td><td></td><td>Shows PLAYER A or B current playback status</td></status:stopped>	/PAUSE>		Shows PLAYER A or B current playback status
PLAYER_PLAYLIST_INDEX	<player:a b=""></player:a>	<index:199></index:199>			Shows PLAYER A or B loaded playlist number, from the 99 available in th playlist bank
PLAYER_PLAYLIST_NAME	<player:a b=""></player:a>	" <name>"</name>			Shows PLAYER A or B loaded playlist name, from the 99 available in the playlist bank
PLAYER_QUEUE_INFO	<player:a b=""></player:a>	<queue_index></queue_index>	<queue_cou< td=""><td>JNT></td><td>Shows PLAYER A or B current playback queue position (index) and total number of items in it (cour</td></queue_cou<>	JNT>	Shows PLAYER A or B current playback queue position (index) and total number of items in it (cour



PLAYER_PLAY_MODE	<player:a b=""></player:a>	<mode:sequential random=""></mode:sequential>		Shows PLAYER A or B
				current playback order
				mode
PLAYER_REPEAT_MODE	<player:a b=""></player:a>	<mode:play_all play_one="" ref<="" td=""><td>PEAT_ALL/REPEAT_ONE></td><td>Shows PLAYER A or B</td></mode:play_all>	PEAT_ALL/REPEAT_ONE>	Shows PLAYER A or B
				current playback repeat
				mode
PLAYER_FADE_MODE	<player:a b=""></player:a>	<mode:none fad<="" td="" xfade=""><td>E/HFADE></td><td>Shows PLAYER A or B</td></mode:none>	E/HFADE>	Shows PLAYER A or B
				current tracks playback
				transition mode
PLAYER_VARISPEED	<player:a b=""></player:a>	<value:-5050></value:-5050>		Shows PLAYER A or B
				current playback tempo
				variation value
PRIORITY_STATUS	<priority:1 2=""></priority:1>	<status:running stopped=""></status:running>		Shows PRIORITY MODULE
				1 or 2 status
PLAYER_ITEM_TAG_ALIAS	<player:a b=""></player:a>	" <alias>"</alias>		Shows PLAYER A or B
				current playlist ALIAS field
PLAYER_ITEM_TAG_TITLE	<player:a b=""></player:a>	" <title>"</td><td></td><td>Shows PLAYER A or B</td></tr><tr><td></td><td></td><td></td><td></td><td>current playback title tag</td></tr><tr><td>PLAYER_ITEM_TAG_ARTIST</td><td><PLAYER:A/B></td><td>"<ARTIST>"</td><td></td><td>Shows PLAYER A or B</td></tr><tr><td></td><td></td><td></td><td></td><td>current playback artist tag</td></tr><tr><td>PLAYER_ITEM_TAG_ALBUM</td><td><PLAYER:A/B></td><td>"<ALBUM>"</td><td></td><td>Shows PLAYER A or B</td></tr><tr><td></td><td></td><td></td><td></td><td>current playback album tag</td></tr><tr><td>PLAYER_ITEM_TAG_NAME</td><td><PLAYER:A/B></td><td>"<NAME>"</td><td></td><td>Shows PLAYER A or B</td></tr><tr><td></td><td></td><td></td><td></td><td>current playback name tag</td></tr></tbody></table></title>		



21 ERROR CODES FOR ECLERNET DEVICES

21.1 COMMON ERROR CODES (to all EclerNet - TP-NET compatible devices)

ERROR ID	DESCRIPTION
0	TPNET_ERROR_NONE = 0,
1	TPNET_ERROR_INVALID_FIELD_TYPE,
2	TPNET_ERROR_INVALID_FIELD_PARAM1,
3	TPNET_ERROR_INVALID_FIELD_PARAM2,
4	TPNET_ERROR_INVALID_FIELD_PARAM3,
5	TPNET_ERROR_INVALID_FIELD_PARAM4,



21.2 NXA SERIES SPECIFIC ERROR CODES

ERROR ID	DESCRIPTION
6	UDP_ERROR_TIMEOUT_PONG,
7	UDP_ERROR_CONNECT_WHILE_CONNECTED,
8	UDP_ERROR_DISCONNECT_WHILE_UNCONNECTED,
9	UDP_ERROR_INVALID_CLIENT_IP,
10	UDP_ERROR_MESSAGE_TOO_LONG,
11	UDP_ERROR_UNSUPPORTED_MESSAGE,
12	UDP_ERROR_UNSUPPORTED_PRESET_NUMBER,
13	UDP_ERROR_UNSUPPORTED_INPUT_CHANNEL_NUMBER,
14	UDP_ERROR_UNSUPPORTED_OUTPUT_CHANNEL_NUMBER,
15	UDP_ERROR_UNSUPPORTED_GPI_NUMBER,
16	UDP_ERROR_UNSUPPORTED_GPO_NUMBER,
17	UDP_ERROR_INVALID_LEVEL_VALUE,
18	UDP_ERROR_INVALID_RATE_VALUE,
19	UDP_ERROR_GPO_VALUE,
20	UDP_ERROR_MAX_CLIENTS_REACHED,
21	UDP_ERROR_MASTER_MODE,



21.3 NZA SERIES SPECIFIC ERROR CODES

ERROR ID	DESCRIPTION
6	UDP_ERROR_TIMEOUT_PONG,
7	UDP_ERROR_CONNECT_WHILE_CONNECTED,
8	UDP_ERROR_DISCONNECT_WHILE_UNCONNECTED,
9	UDP_ERROR_INVALID_CLIENT_IP,
10	UDP_ERROR_MESSAGE_TOO_LONG,
11	UDP_ERROR_UNSUPPORTED_MESSAGE,
12	UDP_ERROR_UNSUPPORTED_PRESET_NUMBER,
13	UDP_ERROR_UNSUPPORTED_INPUT_CHANNEL_NUMBER,
14	UDP_ERROR_UNSUPPORTED_OUTPUT_CHANNEL_NUMBER,
15	UDP_ERROR_UNSUPPORTED_GPI_NUMBER,
16	UDP_ERROR_UNSUPPORTED_GPO_NUMBER,
17	UDP_ERROR_INVALID_LEVEL_VALUE,
18	UDP_ERROR_INVALID_RATE_VALUE,
19	UDP_ERROR_GPO_VALUE,
20	UDP_ERROR_UNSUPPORTED_INPUT_SELECT_VALUE,



21.4 NPA, MIMO7272DN, MIMO4040CDN, MIMO88 & MIMO88 CONFERENCE SERIES SPECIFIC ERROR CODES

ERROR ID	DESCRIPTION
6	UDP_ERROR_TIMEOUT_PONG,
7	UDP_ERROR_CONNECT_WHILE_CONNECTED,
8	UDP_ERROR_DISCONNECT_WHILE_UNCONNECTED,
9	UDP_ERROR_INVALID_CLIENT_IP,
10	UDP_ERROR_MESSAGE_TOO_LONG,
11	UDP_ERROR_UNSUPPORTED_MESSAGE,
12	UDP_ERROR_UNSUPPORTED_PRESET_NUMBER,
13	UDP_ERROR_UNSUPPORTED_INPUT_CHANNEL_NUMBER,
14	UDP_ERROR_UNSUPPORTED_OUTPUT_CHANNEL_NUMBER,
15	UDP_ERROR_UNSUPPORTED_GPI_NUMBER,
16	UDP_ERROR_UNSUPPORTED_GPO_NUMBER,
17	UDP_ERROR_INVALID_LEVEL_VALUE,
18	UDP_ERROR_INVALID_RATE_VALUE,
19	UDP_ERROR_GPO_VALUE,



21.5 MIMO88SG, MIMO1212SG, MIMO88SG CONFERENCE & MIMO1212SG CONFERENCE SERIES SPECIFIC ERROR CODES

ERROR ID	DESCRIPTION
6	UDP_ERROR_TIMEOUT_PONG,
7	UDP_ERROR_CONNECT_WHILE_CONNECTED,
8	UDP_ERROR_DISCONNECT_WHILE_UNCONNECTED,
9	UDP_ERROR_INVALID_CLIENT_IP,
10	UDP_ERROR_MESSAGE_TOO_LONG,
11	UDP_ERROR_UNSUPPORTED_MESSAGE,
12	UDP_ERROR_UNSUPPORTED_PRESET_NUMBER,
13	UDP_ERROR_UNSUPPORTED_INPUT_CHANNEL_NUMBER,
14	UDP_ERROR_UNSUPPORTED_OUTPUT_CHANNEL_NUMBER,
15	UDP_ERROR_UNSUPPORTED_GPI_NUMBER,
16	UDP_ERROR_INVALID_LEVEL_VALUE,
17	UDP_ERROR_INVALID_RATE_VALUE,



21.6 DUO-NET PLAYER SPECIFIC ERROR CODES

ERROR ID	DESCRIPTION
6	TPNET_ERROR_INVALID_FIELD_PARAM5,
7	TPNET_ERROR_TIMEOUT_PONG,
8	TPNET_ERROR_CONNECT_WHILE_CONNECTED,
9	TPNET_ERROR_DISCONNECT_WHILE_UNCONNECTED,
10	TPNET_ERROR_INVALID_CLIENT_IP,
11	TPNET_ERROR_MESSAGE_TOO_LONG,
12	TPNET_ERROR_UNSUPPORTED_MESSAGE,
13	TPNET_ERROR_INVALID_RATE_VALUE,
14	TPNET_ERROR_MAX_CLIENTS_REACHED,
15	TPNET_ERROR_MASTER_MODE,



22 eMIMO1616 DIGITAL MATRIX

<u>IMPORTANT NOTE:</u> The communication must be started with the client sending <u>the first message</u> <u>SYSTEM CONNECT</u> to the device. Otherwise, the commands from the client to the EclerNet device will be ignored. See <u>TP-NET PROTOCOL INTRODUCTION</u> chapter for additional information.

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SYSTEM	CONNECT	[PINGPONG]			Saves the client IP address for responses and then
0101211					dumps current device status (with DATA
					messages)
	DISCONNECT				Cancel subscriptions and terminates
					communication
	SUBSCRIPTION_RATE	<rate></rate>			Alive message from device
	PING_INTERVAL	<1-1000>			Ping Interval, in seconds
	PING				Alive message from device
	PONG				Alive ACK message from client
GET	ALL				Dumps current device status (with DATA
					messages)
	INFO_NAME				Gets the Device Name
	INFO_MODEL				Gets the Device Model
	INFO_VERSION				Gets the Firmware Version
	INFO_MAC				Gets the Device MAC address
	IP_CONFIG				Gets the Device network configuration
	INFO_IPLIST				Gets the list of clients connected to the Device
	INAME	<input channel=""/>			Gets the NAME (label) of an Input Channel
	ILEVEL	<input channel=""/>			Gets the current LEVEL of an Input Channel
	IMUTE	<input channel=""/>			Gets the current MUTE status of an Input Channel
	IBASSGAIN	<input channel=""/>			Gets the current BASS EQ filter GAIN of an Input
					Channel
	IMIDGAIN	<input channel=""/>			Gets the current MID EQ filter GAIN of an Input
					Channel



ITREBLEGAIN	<input channel=""/>	Gets the current TREBLE EQ filter GAIN of an Input
		Channel
IVU	<input channel=""/>	Gets the VU-meter value of an Input Channel
ONAME	<output channel=""></output>	Gets the NAME (label) of an Output Channel
OLEVEL	<output channel=""></output>	Gets the current LEVEL of an Output Channel
OMUTE	<output channel=""></output>	Gets the current MUTE status of an Output
		Channel
OBASSGAIN	<output channel=""></output>	Gets the current BASS EQ filter GAIN of an Output
		Channel
OMIDGAIN	<output channel=""></output>	Gets the current MID EQ filter GAIN of an Output
		Channel
OTREBLEGAIN	<output channel=""></output>	Gets the current TREBLE EQ filter GAIN of an
		Output Channel
OVU	<output channel=""></output>	Gets the VU-meter value of an Output Channel
OSOURCESEL	<output channel=""></output>	Gets the current selected source (input) of an
		Output Channel



TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SET	IMUTE	<input channel=""/>	YES/NO		Sets the current MUTE status of an Input Channel
	ILEVEL	<input channel=""/>	<level></level>		Sets the current LEVEL of an Input Channel (Level
					can range from 1 to 100)
	IBASSGAIN	<input channel=""/>	<gain></gain>		Sets the current BASS EQ filter GAIN of an Input
					Channel (Gain can range from ±1 to ±100)
	IMIDGAIN	<input channel=""/>	<gain></gain>		Sets the current MID EQ filter GAIN of an Input
					Channel (Gain can range from ±1 to ±100)
	ITREBLEGAIN	<input channel=""/>	<gain></gain>		Sets the current TREBLE EQ filter GAIN of an Input
					Channel (Gain can range from ±1 to ±100)
	OMUTE	<output channel=""></output>	YES/NO		Sets the current MUTE status of an Output Channel
	OLEVEL	<output channel=""></output>	<level></level>		Sets the current LEVEL of an Output Channel (Level
					can range from 1 to 100)
	OBASSGAIN	<output channel=""></output>	<gain></gain>		Sets the current BASS EQ filter GAIN of an Output
					Channel (Gain can range from ±1 to ±100)
	OMIDGAIN	<output channel=""></output>	<gain></gain>		Sets the current MID EQ filter GAIN of an Output
					Channel (Gain can range from ±1 to ±100)
	OTREBLEGAIN	<output channel=""></output>	<gain></gain>		Sets the current TREBLE EQ filter GAIN of an
					Output Channel (Gain can range from ±1 to ±100)
	OSOURCESEL	<output channel=""></output>	<input/>		Sets the selected source (input) for an Output
					Channel (Input (source) can range from 0 to 16,
					meaning 0 = no source (silence))
INC	ILEVEL	<input channel=""/>	<value></value>		Increases the current LEVEL of an Input Channel by
					Value (Value can range from ±1 to ±100)
	IBASSGAIN	<input channel=""/>	<value></value>		Increases the current BASS EQ filter GAIN of an
					Input Channel by Value (Value can range from ±1
					to ±200, where 200 means 20.0 -> values are steps
					like nn.n, with decimal fraction)
	IMIDGAIN	<input channel=""/>	<value></value>		Increases the current MID EQ filter GAIN of an Input
					Channel by Value (Value can range from ±1 to ±200,
					where 200 means 20.0 -> values are steps like nn.n,
					with decimal fraction)



	ITREBLEGAIN	<input channel=""/>	<value></value>	Increases the current TREBLE EQ filter GAIN of an
				Input Channel by Value (Value can range from ±1 to
				±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OLEVEL	<output channel=""></output>	<value></value>	Increases the current LEVEL of an Output Channel
				by Value (Value can range from ±1 to ±100)
	OBASSGAIN	<input channel=""/>	<value></value>	Increases the current BASS EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OMIDGAIN	<input channel=""/>	<value></value>	Increases the current MID EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OTREBLEGAIN	<input channel=""/>	<value></value>	Increases the current TREBLE EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
DEC	ILEVEL	<input channel=""/>	<value></value>	Decreases the current LEVEL of an Input Channel
				by Value (Value can range from ±1 to ±100)
	IBASSGAIN	<input channel=""/>	<value></value>	Decreases the current BASS EQ filter GAIN of an
				Input Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	IMIDGAIN	<input channel=""/>	<value></value>	Decreases the current MID EQ filter GAIN of an Input
				Channel by Value (Value can range from ±1 to ±200,
				where 200 means 20.0 -> values are steps like nn.n,
				with decimal fraction)
	ITREBLEGAIN	<input channel=""/>	<value></value>	Decreases the current TREBLE EQ filter GAIN of an
				Input Channel by Value (Value can range from ±1 to
				±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)



	OLEVEL	<output channel=""></output>	<value></value>	Decreases the current LEVEL of an Output Channel
				by Value (Value can range from ±1 to ±100)
	OBASSGAIN	<input channel=""/>	<value></value>	Decreases the current BASS EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OMIDGAIN	<input channel=""/>	<value></value>	Decreases the current MID EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OTREBLEGAIN	<input channel=""/>	<value></value>	Decreases the current TREBLE EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
SUBSCRIBE	ALL			Subscribes to all VU-meters
	IVU	<input channel=""/>		Subscribes to an Input Channel VU-meter
	OVU	<output channel=""></output>		Subscribes to an Output Channel VU-meter
UNSUBSCRIBE	ALL			Unsubscribe to all VU-meters
	IVU	<input channel=""/>		Unsubscribe to an Input Channel VU-meter
	OVU	<output channel=""></output>		Unsubscribe to an Output Channel VU-meter



TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
DATA	INFO_NAME	" <device name="">"</device>			Shows the Device Name
	INFO_MODEL	<device model=""></device>			Shows the Device Model
	INFO_VERSION	<firmware version=""></firmware>			Shows the Firmware Version
	INFO_MAC	<device address="" mac=""></device>			Shows the Device MAC address
	IP_CONFIG				Shows the Device network configuration. The
					message will contain DeviceIP DeviceMask
					DeviceGateway (separated by blank
					characters)
	INFO_IPLIST				Shows the list of clients connected to the
					Device. The message will contain a list
					including ClientNumber ClientIP Client Port
					(separated by blank characters)
	INAME	<input channel=""/>	<name></name>		Shows the NAME (label) of an Input Channel
	ILEVEL	<input channel=""/>	<level></level>		Shows the current LEVEL of an Input
					Channel
	IMUTE	<input channel=""/>	YES/NO		Shows the current MUTE status of an Input
					Channel
	IBASSGAIN	<input channel=""/>	<gain></gain>		Shows the current BASS EQ filter GAIN of an
					Input Channel
	IMIDGAIN	<input channel=""/>	<gain></gain>		Shows the current MID EQ filter GAIN of an
					Input Channel
	ITREBLEGAIN	<input channel=""/>	<gain></gain>		Shows the current TREBLE EQ filter GAIN of
					an Input Channel
	IVU	<input channel=""/>	<post td="" vumeter<=""><td></td><td>Shows the VU-meter value of an Input</td></post>		Shows the VU-meter value of an Input
			Level>		Channel
	ONAME	<output channel=""></output>	<name></name>		Shows the NAME (label) of an Output
					Channel
	OLEVEL	<output channel=""></output>	<level></level>		Shows the current LEVEL of an Output
					Channel



	OMUTE	<output channel=""></output>	YES/NO	Shows the current MUTE status of an Output
				Channel
	OBASSGAIN	<input channel=""/>	<gain></gain>	Shows the current BASS EQ filter GAIN of an
				Output Channel
	OMIDGAIN	<input channel=""/>	<gain></gain>	Shows the current MID EQ filter GAIN of an
				Output Channel
	OTREBLEGAIN	<input channel=""/>	<gain></gain>	Shows the current TREBLE EQ filter GAIN of
				an Output Channel
	OVU	<output channel=""></output>	<post td="" vumeter<=""><td>Shows the VU-meter value of an Output</td></post>	Shows the VU-meter value of an Output
			Level>	Channel
	OSOURCESEL	<output channel=""></output>	<input/>	Shows the current selected source (input) of
				an Output Channel. (Input (source) can range
				from 0 to 16, meaning 0 = no source
				(silence))
ERROR	<error id=""></error>	" <error description="">"</error>		Informs about an error



23 eMIMO1616 ERROR CODES

ERROR ID	DESCRIPTION						
0	No error. Depending on scenario, can report any of the following:						
	Device is in TEST MODE						
	Device is in FACTORY MODE						
	Last loaded project was incomplete						
	Now Disconnected						
1	Invalid Field MSG						
2	Depending on scenario, can report any of the following:						
	Invalid Field DATA						
	Invalid Field VALUE						
	Invalid Field PARAM1						
3	Invalid Field CHANNEL						
4	Invalid Field VALUE						
7	Timeout Waiting PONG						
8	CONNECT received while connected						
9	DISCONNECT received while unconnected						
10	Invalid client (client not connected)						
11	Message too long (more than 80 characters)						
12	Message with invalid format						
13	Depending on scenario, can report any of the following:						
	Invalid Ping Interval value						
	Invalid Subscription Interval value						
14	Maximum number of clients reached						
15	Master Mode active						



24 HUB SERIES DIGITAL ZONER

<u>IMPORTANT NOTE:</u> The communication must be started with the client sending <u>the first message</u> <u>SYSTEM CONNECT</u> to the device. Otherwise, the commands from the client to the EclerNet device will be ignored. See <u>TP-NET PROTOCOL INTRODUCTION</u> chapter for additional information.

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SYSTEM	CONNECT	[PINGPONG]			Saves the client IP address for responses and then
3131EM					dumps current device status (with DATA
					messages)
	DISCONNECT				Cancel subscriptions and terminates
					communication
	SUBSCRIPTION_RATE	<rate></rate>			Alive message from device
	PING_INTERVAL	<1-1000>			Ping Interval, in seconds
	PING				Alive message from device
	PONG				Alive ACK message from client
GET	ALL				Dumps current device status (with DATA
					messages)
	INFO_NAME				Gets the Device Name
	INFO_MODEL				Gets the Device Model
	INFO_VERSION				Gets the Firmware Version
	INFO_MAC				Gets the Device MAC address
	IP_CONFIG				Gets the Device network configuration
	INFO_IPLIST				Gets the list of clients connected to the Device
	INAME	<input channel=""/>			Gets the NAME (label) of an Input Channel
	ILEVEL	<input channel=""/>			Gets the current LEVEL of an Input Channel
	IMUTE	<input channel=""/>			Gets the current MUTE status of an Input Channel
	IBASSGAIN	<input channel=""/>			Gets the current BASS EQ filter GAIN of an Input
					Channel
	IMIDGAIN	<input channel=""/>			Gets the current MID EQ filter GAIN of an Input
					Channel



ITREBLEGAIN	<input channel=""/>	Gets the current TREBLE EQ filter GAIN of an Input
		Channel
IVU	<input channel=""/>	Gets the VU-meter value of an Input Channel
ONAME	<output channel=""></output>	Gets the NAME (label) of an Output Channel
OLEVEL	<output channel=""></output>	Gets the current LEVEL of an Output Channel
OMUTE	<output channel=""></output>	Gets the current MUTE status of an Output
		Channel
OGENVOL		Gets the current LEVEL of the General Volume
OMUTEGENVOL		Gets the current MUTE status of the General
		Volume
OBASSGAIN	<output channel=""></output>	Gets the current BASS EQ filter GAIN of an Output
		Channel
OMIDGAIN	<output channel=""></output>	Gets the current MID EQ filter GAIN of an Output
		Channel
OTREBLEGAIN	<output channel=""></output>	Gets the current TREBLE EQ filter GAIN of an
		Output Channel
OVU	<output channel=""></output>	Gets the VU-meter value of an Output Channel
OSOURCESEL	<output channel=""></output>	Gets the current selected source (input) of an
		Output Channel

TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
SET	IMUTE	<input channel=""/>	YES/NO		Sets the current MUTE status of an Input Channel
	ILEVEL	<input channel=""/>	<level></level>		Sets the current LEVEL of an Input Channel (Level
					can range from 1 to 100)
	IBASSGAIN	<input channel=""/>	<gain></gain>		Sets the current BASS EQ filter GAIN of an Input
					Channel (Gain can range from ±1 to ±100)
	IMIDGAIN	<input channel=""/>	<gain></gain>		Sets the current MID EQ filter GAIN of an Input
					Channel (Gain can range from ±1 to ±100)
	ITREBLEGAIN	<input channel=""/>	<gain></gain>		Sets the current TREBLE EQ filter GAIN of an Input
					Channel (Gain can range from ±1 to ±100)
	OMUTE	<output channel=""></output>	YES/NO		Sets the current MUTE status of an Output Channel



	OLEVEL	<output channel=""></output>	<level></level>	Sets the current LEVEL of an Output Channel (Level
				can range from 1 to 100)
	OGENVOL	<level></level>		Sets the current LEVEL of the General Volume
				(Level can range from 1 to 100)
	OMUTEGENVOL	YES/NO		Sets the current MUTE status of the General
				Volume
	OBASSGAIN	<output channel=""></output>	<gain></gain>	Sets the current BASS EQ filter GAIN of an Output
				Channel (Gain can range from ±1 to ±100)
	OMIDGAIN	<output channel=""></output>	<gain></gain>	Sets the current MID EQ filter GAIN of an Output
				Channel (Gain can range from ±1 to ±100)
	OTREBLEGAIN	<output channel=""></output>	<gain></gain>	Sets the current TREBLE EQ filter GAIN of an
				Output Channel (Gain can range from ±1 to ±100)
	OSOURCESEL	<output channel=""></output>	<input/>	Sets the selected source (input) for an Output
				Channel (Input (source) can range from 0 to 16,
				meaning 0 = no source (silence))
INC	ILEVEL	<input channel=""/>	<value></value>	Increases the current LEVEL of an Input Channel by
				Value (Value can range from ± 1 to ± 100)
	IBASSGAIN	<input channel=""/>	<value></value>	Increases the current BASS EQ filter GAIN of an
				Input Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	IMIDGAIN	<input channel=""/>	<value></value>	Increases the current MID EQ filter GAIN of an Input
				Channel by Value (Value can range from ± 1 to ± 200 ,
				where 200 means 20.0 -> values are steps like nn.n,
				with decimal fraction)
	ITREBLEGAIN	<input channel=""/>	<value></value>	Increases the current TREBLE EQ filter GAIN of an
				Input Channel by Value (Value can range from ±1 to
				±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OLEVEL	<output channel=""></output>	<value></value>	Increases the current LEVEL of an Output Channel
				by Value (Value can range from ±1 to ±100)



	OGENVOL	<value></value>		Increases the current LEVEL of the General Volume
				by Value (Value can range from ±1 to ±100)
	OBASSGAIN	<input channel=""/>	<value></value>	Increases the current BASS EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OMIDGAIN	<input channel=""/>	<value></value>	Increases the current MID EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OTREBLEGAIN	<input channel=""/>	<value></value>	Increases the current TREBLE EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
DEC	ILEVEL	<input channel=""/>	<value></value>	Decreases the current LEVEL of an Input Channel
				by Value (Value can range from ±1 to ±100)
	IBASSGAIN	<input channel=""/>	<value></value>	Decreases the current BASS EQ filter GAIN of an
				Input Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	IMIDGAIN	<input channel=""/>	<value></value>	Decreases the current MID EQ filter GAIN of an Input
				Channel by Value (Value can range from ±1 to ±200,
				where 200 means 20.0 -> values are steps like nn.n,
				with decimal fraction)
	ITREBLEGAIN	<input channel=""/>	<value></value>	Decreases the current TREBLE EQ filter GAIN of an
				Input Channel by Value (Value can range from ±1 to
				±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OLEVEL	<output channel=""></output>	<value></value>	Decreases the current LEVEL of an Output Channel
				by Value (Value can range from ±1 to ±100)



	OGENVOL	<value></value>		Decreases the current LEVEL of the General
				Volume by Value (Value can range from ±1 to
				±100)
	OBASSGAIN	<input channel=""/>	<value></value>	Decreases the current BASS EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OMIDGAIN	<input channel=""/>	<value></value>	Decreases the current MID EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
	OTREBLEGAIN	<input channel=""/>	<value></value>	Decreases the current TREBLE EQ filter GAIN of an
				Output Channel by Value (Value can range from ±1
				to ±200, where 200 means 20.0 -> values are steps
				like nn.n, with decimal fraction)
SUBSCRIBE	ALL			Subscribes to all VU-meters
	IVU	<input channel=""/>		Subscribes to an Input Channel VU-meter
	OVU	<output channel=""></output>		Subscribes to an Output Channel VU-meter
UNSUBSCRIBE	ALL			Unsubscribe to all VU-meters
	IVU	<input channel=""/>		Unsubscribe to an Input Channel VU-meter
	OVU	<output channel=""></output>		Unsubscribe to an Output Channel VU-meter



TYPE	PARAM1	PARAM2	PARAM3	PARAM4	DESCRIPTION
DATA	INFO_NAME	" <device name="">"</device>			Shows the Device Name
	INFO_MODEL	<device model=""></device>			Shows the Device Model
	INFO_VERSION	<firmware version=""></firmware>			Shows the Firmware Version
	INFO_MAC	<device address="" mac=""></device>			Shows the Device MAC address
	IP_CONFIG				Shows the Device network configuration. The
					message will contain DeviceIP DeviceMask
					DeviceGateway (separated by blank
					characters)
	INFO_IPLIST				Shows the list of clients connected to the
					Device. The message will contain a list
					including ClientNumber ClientIP Client Port
					(separated by blank characters)
	INAME	<input channel=""/>	<name></name>		Shows the NAME (label) of an Input Channel
	ILEVEL	<input channel=""/>	<level></level>		Shows the current LEVEL of an Input
					Channel
	IMUTE	<input channel=""/>	YES/NO		Shows the current MUTE status of an Input
					Channel
	IBASSGAIN	<input channel=""/>	<gain></gain>		Shows the current BASS EQ filter GAIN of an
					Input Channel
	IMIDGAIN	<input channel=""/>	<gain></gain>		Shows the current MID EQ filter GAIN of an
					Input Channel
	ITREBLEGAIN	<input channel=""/>	<gain></gain>		Shows the current TREBLE EQ filter GAIN of
					an Input Channel
	IVU	<input channel=""/>	<post td="" vumeter<=""><td></td><td>Shows the VU-meter value of an Input</td></post>		Shows the VU-meter value of an Input
			Level>		Channel
	ONAME	<output channel=""></output>	<name></name>		Shows the NAME (label) of an Output
					Channel
	OLEVEL	<output channel=""></output>	<level></level>		Shows the current LEVEL of an Output
					Channel



	OMUTE	<output channel=""></output>	YES/NO	Shows the current MUTE status of an Output
				Channel
	OGENVOL	<level></level>		Shows the current LEVEL of the General
				Volume
	OMUTEGENVOL	YES/NO		Shows the current MUTE status of the
				General Volume
	OBASSGAIN	<input channel=""/>	<gain></gain>	Shows the current BASS EQ filter GAIN of an
				Output Channel
	OMIDGAIN	<input channel=""/>	<gain></gain>	Shows the current MID EQ filter GAIN of an
				Output Channel
	OTREBLEGAIN	<input channel=""/>	<gain></gain>	Shows the current TREBLE EQ filter GAIN of
				an Output Channel
	OVU	<output channel=""></output>	<post td="" vumeter<=""><td>Shows the VU-meter value of an Output</td></post>	Shows the VU-meter value of an Output
			Level>	Channel
	OSOURCESEL	<output channel=""></output>	<input/>	Shows the current selected source (input) of
				an Output Channel. (Input (source) can range
				from 0 to 16, meaning 0 = no source
				(silence))
ERROR	<error id=""></error>	" <error description="">"</error>		Informs about an error



25 HUB SERIES ERROR CODES

ERROR ID	DESCRIPTION			
0	No error. Depending on scenario, can report any of the following:			
	Device is in TEST MODE			
	Device is in FACTORY MODE			
	Last loaded project was incomplete			
	Now Disconnected			
1	Invalid Field MSG			
2	Depending on scenario, can report any of the following:			
	Invalid Field DATA			
	Invalid Field VALUE			
	Invalid Field PARAM1			
3	Invalid Field CHANNEL			
4	Invalid Field VALUE			
7	Timeout Waiting PONG			
8	CONNECT received while connected			
9	DISCONNECT received while unconnected			
10	Invalid client (client not connected)			
11	Message too long (more than 80 characters)			
12	Message with invalid format			
13	Depending on scenario, can report any of the following:			
	Invalid Ping Interval value			
	Invalid Subscription Interval value			
14	Maximum number of clients reached			
15	Master Mode active			





All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications

For technical queries contact your supplier, distributor or complete the contact form on our website, in <u>Support / Technical requests</u>.

Motors, 166-168 08038 Barcelona - Spain - (+34) 932238403 | <u>information@ecler.com</u> | <u>www.ecler.com</u>