



TERRA-IXII is designed for simple point-to-point or point-to-multi-point audio distribution, as well as converting analog audio via an Ethernet/Internet network without the need for a computer. TERRA-IXII incorporates a high-quality MP3 encoder and decoder. The decoder converts MP3 audio from the network, and the encoder converts analog audio sources, such as a CD player, to the network. The internal memory of TERRA-IXII supports up to 200MB for music/messages/recordings storage. Audio files can be easily stored through a computer on the local network and played locally. Additionally, the micro SD card can store all audio files.

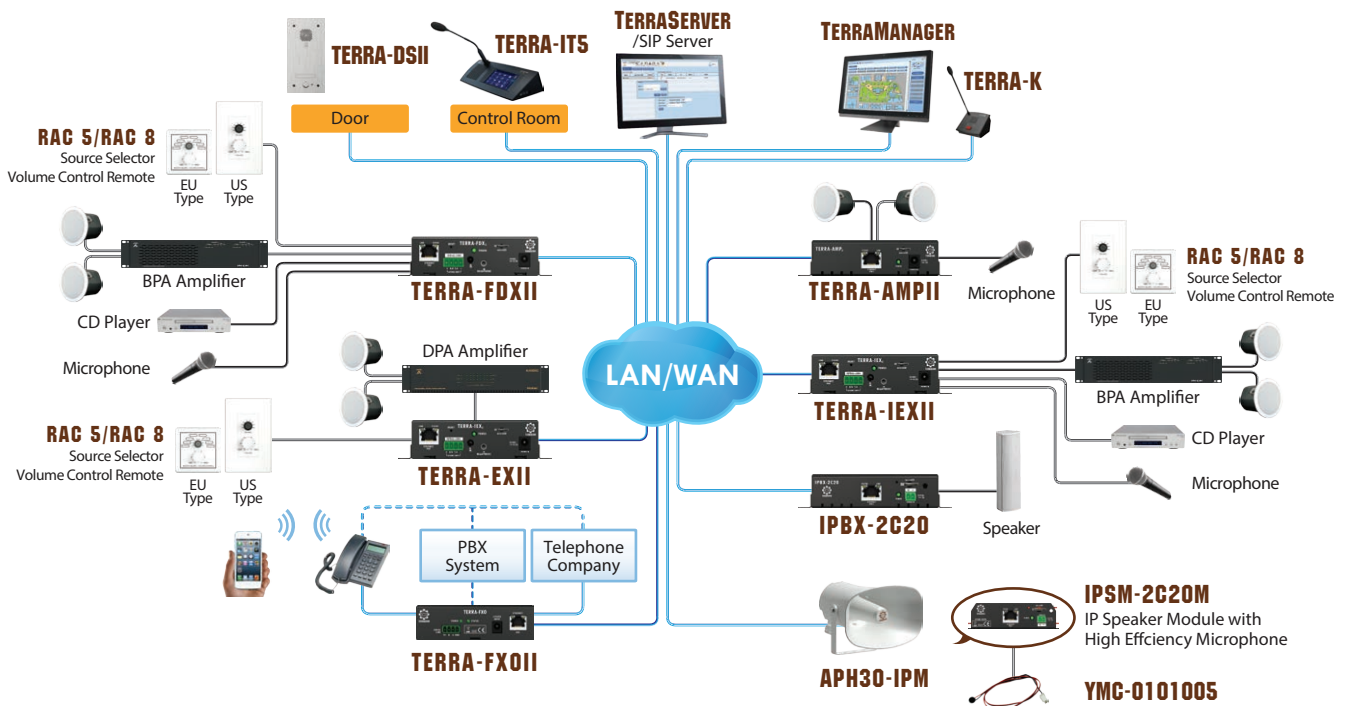
The typical application involves integrating BGM playback and emergency calls using a single TERRA-IXII. Generally, the TERRA-IXII is utilized for decoding MP3 audio streaming from the network. A push button is connected to the control input of TERRA-IXII for emergency calls. Additionally, users can connect an external microphone* of their choice to the mic input. Lastly, users can program one or several target IP addresses through the TERRA-IXII web browser. When the push button is pressed, BGM playback automatically stops, and the emergency call is triggered to play to the pre-programmed target or to multiple targets sequentially as predefined. The call can be a live broadcast or predefined messages.

*: The external microphone is not included in the order and must be purchased separately. Any 3rd-party 24VDC phantom power microphone can be connected to the mic input.

FEATURES

- Support PoE+ and PoE power
- Power, link and status LED indicators
- 2 balanced Mic/line inputs
- 1 stereo or 2 mono line output with 3.81 mm Euro-block
- 1 headphone output (3.5 mm mini-jack)
- 3 logic contact inputs and 1 contact output
- Paging with priority that can automatically override other audio sources, such as background music
- Support 3rd party control with TERRACOM system, and 3 interface of RS232, RS485 and Ethernet for customer option
- Easily configured, controlled, managed and monitored via web browser
- Internal 200MB storage and micro SD card interface for music/message recording storage

SYSTEM DIAGRAM



Manufacturer reserves the right to alter specifications without notice

TECHNICAL SPECIFICATIONS
ELECTRICAL

- Power over Ethernet (POE+)
- DC power input: 21 ~ 27.5 VDC
- Power consumption
 - PoE+: 25W max.
 - External power: 50W max.
 - Stand-by: 3W
- Input power option: DC power input, POE (IEEE 802.3 af), POE+ (IEEE 802.3at)

AUDIO CHARACTERISTICS (MIC INPUT)

- Phantom power: 24 VDC
- Frequency response: 20 Hz ~ 20 kHz (± 1 dB) @ 0 dBu
- Input impedance (balanced): 5.5k ohm
- EIN (Equivalent Input Noise): < 85 dB @ 14 dBu
- THD+N: < 0.1 % (20 ~ 20 kHz @ 0 dBu)

INTERCONNECTION

- Female RJ45 socket, CAT5/6 cables
- Max. cable length: 100m

SUPPORTED PROTOCOLS

- SIP 2.0 (peer and proxy)
- IETF SIP (RFC3261)
- IETF IGMP version 2 (RFC2236)
- IETF RTP (RFC1889)
- Switch requirements (minimum request)
 - Transmission rate: 10/100M bps
 - Communication mode: full-duplex
 - IP protocols: IPv4, TCP/IP

CONTACT OUTPUT

- Default status: OPEN (N.O.)
- Maximum voltage: 30 VDC
- Maximum current: 1A

NETWORK

- 10/100 Mbps Base TX Ethernet RJ45
- Manual or Dynamic Host Configuration Protocol (DHCP) IP address setup

MECHANICAL

- Dimensions (W x H x D): 105 x 32 x 83 mm (4.1 x 1.3 x 3.3 inch)
- Weight: 340g (0.75 lbs)

ENVIRONMENTAL

- Operating temperature: -5 °C ~ +50 °C (+ 23 °F ~ +122 °F)
- Storage temperature: -40 °C ~ +70 °C (-40 °F ~ +158 °F)
- Relative humidity: 20% to 95%
- Air pressure: 600 to 1100 hPa
- Heat dissipation: 10.24 BTU/hr @ 20W x 2CH

AUDIO PROCESSING

Level Control, AGC, PEQ, Hi/Lo Pass Filter, Ducker, Comp/Limiter

ENCODERS/DECODERS

Function	Supported Audio Codec
SIP	G.711 ulaw, G.711 alaw, G.722, G.726-32, G.727-32, G.729, PCM16K, MP3
Stream	G.711 ulaw, G.711 alaw, G.722, WAVE, MP3, PCM16K
Record (encode only)	WAVE, MP3

ORDERING INFORMATION

TERRA-IXII	IP Audio Encoder/Decoder II
TERRA-IXTII	IP Audio Encoder/Decoder II (IR-T)
TERRA-IXTSII	IP Audio Encoder/Decoder II (IR-T/SPDIF-S)
TERRA-IXTAII	IP Audio Encoder/Decoder II (IR-T/SPDIF-A)
TERRA-IXRRII	IP Audio Encoder/Decoder II (IR-R)
TERRA-IXRSII	IP Audio Encoder/Decoder II (IR-R/SPDIF-S)
TERRA-IXRAII	IP Audio Encoder/Decoder II (IR-R/SPDIF-A)
TERRA-IX2II	IP Audio Encoder/Decoder II (RS232)
TERRA-IX2TII	IP Audio Encoder/Decoder II (RS232/IR-T)
TERRA-IX2TSII	IP Audio Encoder/Decoder II (RS232/IR-T/SPDIF-S)
TERRA-IX2TAII	IP Audio Encoder/Decoder II (RS232/IR-T/SPDIF-A)
TERRA-IX2RII	IP Audio Encoder/Decoder II (RS232/IR-R)
TERRA-IX2RSII	IP Audio Encoder/Decoder II (RS232/IR-R/SPDIF-S)
TERRA-IX2RAII	IP Audio Encoder/Decoder II (RS232/IR-R/SPDIF-A)
TERRA-IX4II	IP Audio Encoder/Decoder II (RS485)
TERRA-IX4TII	IP Audio Encoder/Decoder II (RS485/IR-T)
TERRA-IX4TSII	IP Audio Encoder/Decoder II (RS485/IR-T/SPDIF-S)
TERRA-IX4TAII	IP Audio Encoder/Decoder II (RS485/IR-T/SPDIF-A)
TERRA-IX4RII	IP Audio Encoder/Decoder II (RS485/IR-R)
TERRA-IX4RSII	IP Audio Encoder/Decoder II (RS485/IR-R/SPDIF-S)
TERRA-IX4RAII	IP Audio Encoder/Decoder II (RS485/IR-R/SPDIF-A)

* IR-T: IR-Transmitter/IR-R: IR-Receiver

* SPDIF-S: SPDIF-Send/SPDIF-A: SPDIF-Accept

* Notice (External Power Adapter): All models of TERRA-IXII are not shipped with the external power adapter, and please order "PSU12-24D" if there is no PoE switch in the installation environment.

* Notice (L Sharp Bracket): All models of TERRA-IXII are not shipped with the L Sharp Bracket, please order "LBKT-TCOMII" for user's need.