

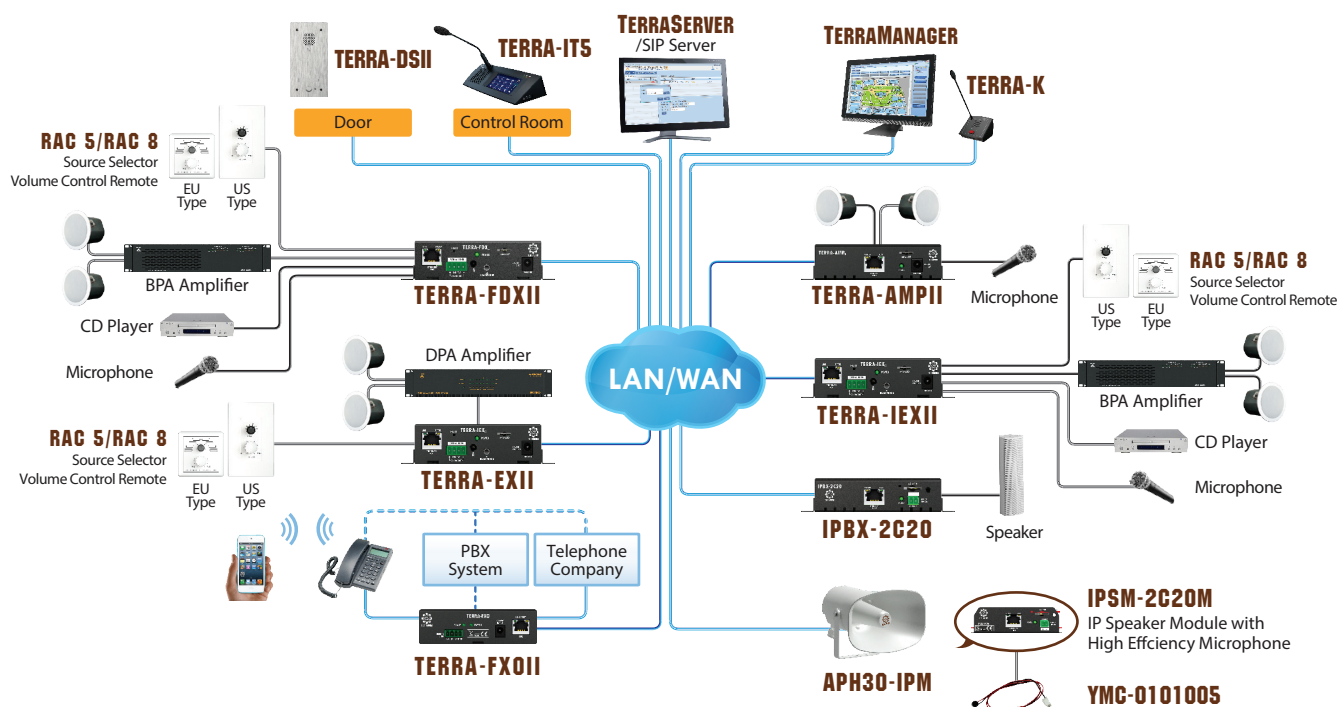


TERRA-FDXII comes with 2 balanced mic/line inputs and 2 balanced line outputs, offering full duplex communication. A Micro SD card interface is provided for playback and backup of pre-recorded playlists and announcements. 3 contact inputs can work with RAC 5/RAC 8 source selector and volume controller and event triggering such as call/hang up, music play/stop, 3rd party command, etc. And the 2 relay contact outputs can be programmed to control an external device. TERRA-FDXII is an ideal IP solution for any applications that require a simple device for paging, full duplex intercom with AEC function and play streaming audio over IP network. It is SIP compliant making it compatible with IP intercom and phone systems such as AVAYA, CISCO & 3COM. The TERRA-FDXII is easily configured via a web interface providing full control over features such as priority and event management, scheduler & output levels. The biggest feature of TERRA -FDXII is that it has a complete sound DSP processing function including Level Control, AGC, ANR, PEQ, Hi/Lo Pass Filter, Ducker and Comp/Limiter.

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 input and 2 contact output
- Easily configured, controlled, managed and monitored via web browser
- Full duplex intercom with AEC (Acoustic Echo Cancellation) and noise reduction
- Paging with priority which can automatically override other audio
- Support 3rd party control with TERRACOM system, and 3 interface of RS232, RS485 and Ethernet for customer option
- Internal 200MB storage and micro SD card interface for music/message recording storage

SYSTEM DIAGRAM



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 dBu @ 14 dB
- THD+N: < 0.1% (20 ~ 20 kHz @ 0 dbu gain)

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
- Time and date synchronization using NTP

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, AEC, ANR, AGC, PEQ, Hi/Lo Pass Filter, Ducker, Comp/Limiter

ENCODERS/DECODERS

Function	Supported Audio Decoders
SIP	G.711u, G.711a, G.722, G.729, PCM16K, WAVE and MP3
Stream	G.711 ulaw, G.711 alaw, G.722, PCM16K, WAVE, MP3
Record (encode only)	WAVE, MP3

ORDERING INFORMATION

TERRA-FDX2II	Full Duplex IP Terminal II (RS232)
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* Notice (External Power Adapter): All models of TERRA-FDXII 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-FDXII are not shipped with the L Sharp Bracket, please order "LBKT-TCOMII" for user's need.