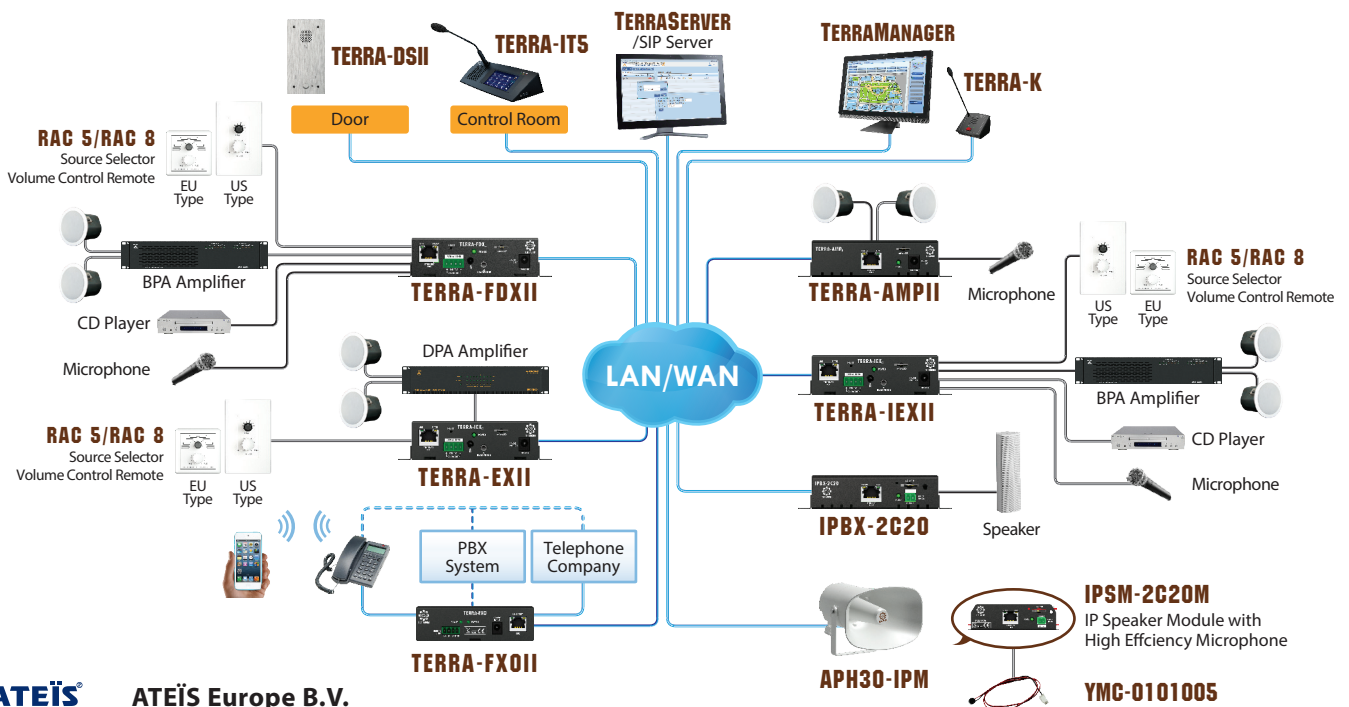


TERRA-AMPII comes with 20W x 2 Channels with 8 ohm (or bridged to 40W x 1 CH with 4 ohm) amplifier outputs, 1 balanced mic/line input, 2 mono or 1 stereo line outputs and 1 stereo line input (3.5 mm mini-jack). A micro SD card interface is provided for playback and backup of pre-recorded playlists and announcements. 3 control inputs can work with RAC 5/RAC 8 source selector and volume controller, event triggering such as call/hang up, music play/stop and 3rd party command, etc. And the 2 relay contact outputs can be programmed to control an external device. TERRA-AMPII is also an ideal IP solution for any applications that require a simple device to paging, full duplex intercom with AEC (Audio Echo Cancellation) and play streaming audio over network. The TERRA-AMPII is easily configured via web interface providing full control over features such as priority and event management, logic control, DSP control, scheduler and output levels, etc.

**FEATURES**

- Support PoE+ and PoE power
- Power, link and status LED indicators
- 1 balanced Mic/line inputs and 2 balanced line outputs
- 1 stereo or 2 mono line output with 3.81 mm Euro-block
- 1 stereo line input (3.5 mm mini-jack) for BGM function
- Easily configured, controlled, managed and monitored via web browser
- Full duplex intercom with AEC (Acoustic Echo Cancellation)
- Paging with priority which can automatically override other audio source such as background music
- 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)

**LOGIC INPUT**

- Low active: max. 0.8 VDC
- High active: min. 2.2 VDC

**AUDIO CHARACTERISTICS (AMPLIFIED OUTPUT)**

- Rated output power: 40W (bridged)/18W (PoE+)
- Frequency response: 20 Hz ~ 20k Hz
- THD+N: 1%
- SNR: > 80 dBu

**AUDIO CHARACTERISTICS (MIC/LINE INPUT)**

- Input level: 3 dBu
- Input impedance: 5.5k ohm
- Phantom power: 24 VDC
- Frequency response: 20 Hz ~ 20 kHz
- EIN: < 85 dBu @ 14 dB gain
- THD+N: < 0.1 %

**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 60 mm (4.1 x 1.3 x 2.4 inch)
- Weight: 280g (0.62 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, AGC, ANR, PEQ, Hi/Lo Pass Filter, Ducker, Limiter

**ENCODERS/DECODERS**

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

---

**ORDERING INFORMATION**


---

<b>TERRA-AMP2II</b>	20Wx2 Amplified IP Terminal II (RS232)
---------------------	----------------------------------------

\* Notice (External Power Adapter): All models of TERRA-AMPII are not shipped with the external power adapter, and please order "PSU65-27D" if there is no PoE switch in the installation environment.

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