

ATEIS®



IDA8SAB

NETWORKABLE PAVA SYSTEM - SLAVE UNIT - A/B-ZONING - MATRIX MODE



IDA8 is a third-generation modular system that complies with current architectural demands requiring IP and/or fibre optic networking to allow for even the most complex of system designs. IDA8SAB responds to Public Address and Voice Alarm requirements as stated in EN54-16, UL60065, ISO 7240-16 and BS5839/ 8, with specific attributes for compliance in large installations.

CONNECTIVITY

The IDA8SAB Slave unit houses advanced audio digital signal processing (DSP), matrix control functions and a digital message player, along with amplifier monitoring with hot-swap amplifiers and loudspeaker line impedance monitoring. It can support up to two PSS-AS monitored microphone consoles, up to eight monitored amplifiers plus two backup amplifiers and paging into 8 different zones per unit with A/B line detection according to the BS 5839-part 8. Featuring 8 monitored zones for 25V/70V/100V outputs with simultaneous selection, control inputs, and contact outputs. IDA8SAB provides the zones and audio in & out expansion of the IDA8 Systems, using a secured 48-channel audio and data network over CAT5 or fibre optic, which can be a network of one controller and a maximum up to 31 Slave units via ATEIS local-net. Two rear card slots can be fitted with optional 4-channel analogue audio in/output cards 4 channel AES/EBU cards for digital audio in/out.

IDA8SAB Slave units provide an extension to the IDA8 system configuration with an additional 8 output zones and 2 back-up amplifiers. Digital messaging can be stored in the unit for live or scheduled playback. Files are uploaded in 7.11, G.722, G.726, G.727 and WAV format from a computer using the ATEIS Studio system GUI. Several messages can be played simultaneously into different zones: up to 4 from a single IDA8SAB or a total of 48 message channels across a full IDA8 system with slaves.

Each input and output channel is fitted with a wide range of pre-and post-processing devices such as volume controllers, routing mixers and switches, priority and paging components, equalizers, com-pressors, limiters and delay-lines.

IDA8SAB is easily configured with PC-based ATEIS Studio global software. Once programmed, the system will run independently without a PC connected. The IDA8SAB Slave operates either on 110VAC or 230VAC mains power or on a 24V DC power supply for emergency back-up, with automatic switchover. Both of the power supplies are monitored.

SECURITY

In accordance with EN54-16, UL60065, ISO 7240-16 and BS5839/8, all system components and peripherals are monitored. This monitoring extends from the capsule of a paging station microphone to the end of a loudspeaker line. The external cables connected to the control inputs are monitored for short and open circuit and an internal, generated pilot tone is available for monitoring impedance on the loudspeaker lines. The IDA8SAB Slave supports redundant network cabling as a redundant loop. The system can handle up to 256 zones with priority(1-99), satisfying even the most complex public address and voice alarm requirements.

MAIN CHARACTERISTICS

- Support a maximum up to 31 slave units in ATEIS Local-Net
- Up to 256 zones provision via ATEIS Local-Net
- Fully digital with 8 audio inputs and 8 audio outputs
- 2 dedicated and monitored PDC-ports for paging consoles
- 2 dedicated audio in and outputs for back-up amplifiers
- Enhanced loudspeaker line surveillance for ABzoned installation
- Simultaneous control and routing of 48 audio channels over dedicated network
- 24bit, 48k sampling digital A/D converter, 32bit DSP
- Each of the 8 zones offers 1000W (MAX.)
- 25 / 70 / 100V selectable outputs
- Up to 100m by using CAT-5 cable with NET-C1
- Optional Fibre-optic cards for links up to 20 km
- 9 supervised control inputs and 8 control outputs
- Modbus Protocol interface via RS485.
- Digital storage for up to 50 minutes in WAV format (16k 16 bit) or 200 minutes in G.722 format of pre-recorded messages
- 4 message players
- Programmable Message Scheduler Events
- DSP functions of PEQ, GEQ, Delays, Ducker, Gate,
- AGC, feedback, filter, inverter, local echo suppressor, mixer
- Ethernet interface for TERRACOM, 3rd party devices, configuration, control, diagnostics and logging
- Incident data record with at least 2047 entries
- Programmable 4 user levels
- Telephone interface via SIP protocol or telephone line services
- 1 Fault & 1 EVAC relays outputs
- Programmable 256 priority paging zones with priority(1-99)
- Incident Log
- 2U standard 19" rack mounting
- EN54-16 certified, UL listed

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BY

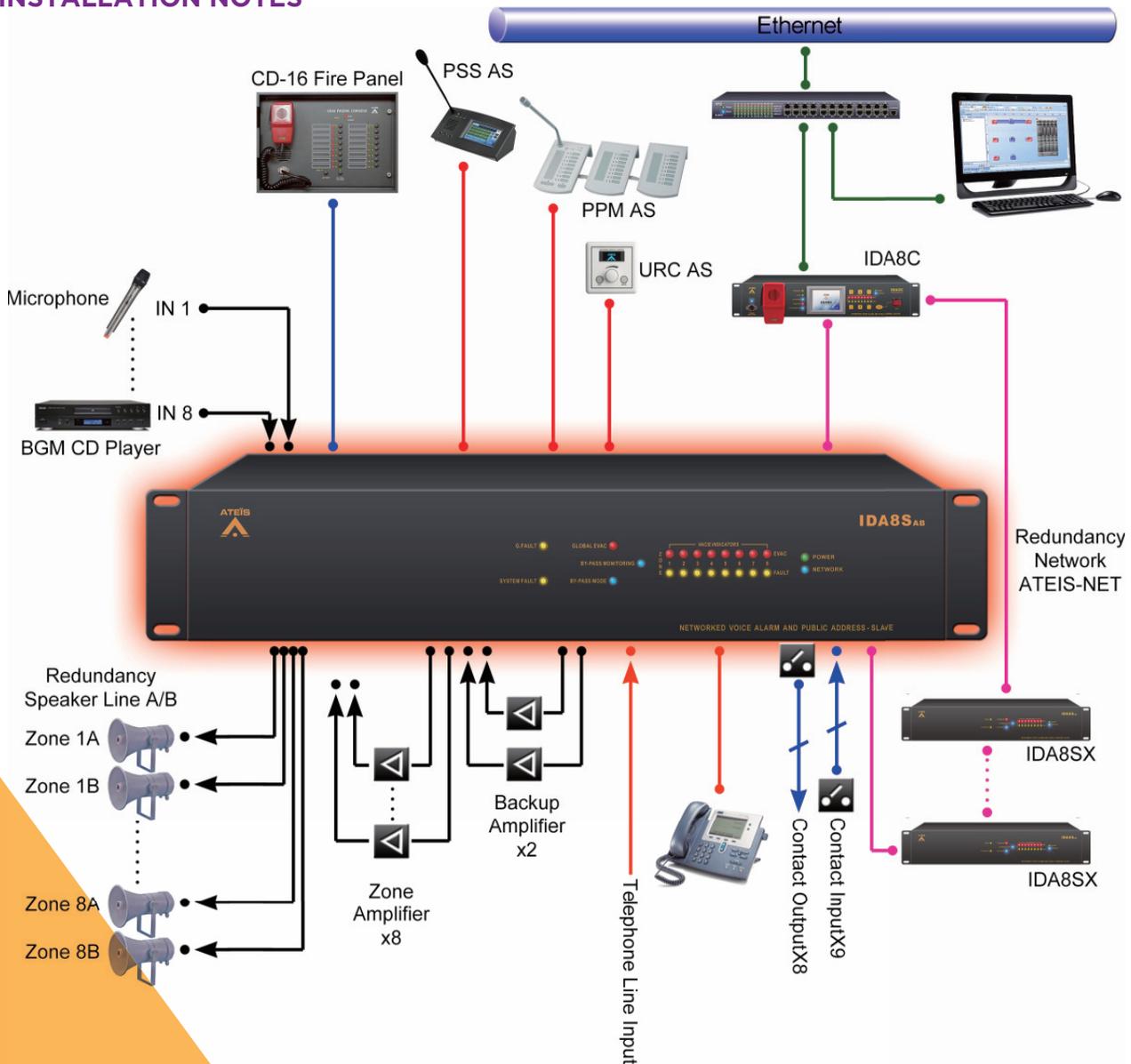
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INSTALLATION NOTES



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CERTIFICATIONS AND APPROVALS

Region Certifications

Europe	Voice Alarm	EN54-16 certified 2012 CE - 0359 according to EN50130 - 4
	Railway Controller System	EN50121 - 4
USA	Safety	UL60065

CONTROLS AND INDICATORS

Front

- Status LEDs (Network / Bypass Monitoring / Bypass Mode / G. EVAC / System Fault / G. Fault)
- Zone LEDs (EVAC / Fault)
- Power LEDs

INTERCONNECTIONS

Rear

- AC power socket
- 24VDC backup power input
- BYPASS Mode output
- 9 control inputs
- 8 control outputs
- 8 analogue audio mic/line inputs/outputs (Optional)
- 2 system LOCAL-network connections
- 8 amplifier in and outputs
- 2 connections for back-up amplifiers
- Telephone Card (Optional)
- 2 monitored paging console inputs

PARTS INCLUDED

Quantities	Components
1	IDA8SAB Slave Unit
1	Power cord (type depends on region)
1	Set of mounting brackets for 19" rack
1	Set of connectors

TECHNICAL SPECIFICATIONS

Electrical

Mains power supply

Voltage	230/115VAC ±15%, 50/60Hz
Power consumption	48W

Battery power supply

Voltage	18 - 30VDC
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Performance

Frequency response	±1dB @ 20Hz to 20kHz
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Line inputs (Optional audio input card)

Connector	3-pin phoenix
Frequency response	±1dB @ 20Hz to 20kHz
SNR	>81dBA
THD	< 0.02% @ 1kHz
Input sensitivity	0 - 66dBu / 6dB steps
Input impedance	10kohm

Line outputs (Optional audio output card)

Connector	3-pin phoenix
SNR	>81dBA
THD	< 0.02% @ 1kHz
Signal	0dB
Output impedance	<100ohm

Amplifier lines in 1 x 100V (per channel)

Max rated output power	1000W (cont. at 40°C)
Frequency response	±3dB @ 50Hz and 18kHz
Input level	16dBu

Loudspeaker lines out 2 x (per channel)

Rated output power	1000W (cont. at 40°C)
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Mechanical

Dimensions (With 19" rack mount brackets)

(H x W x D)	2RU, 88 x 486 x 289mm (3-1/2" x 19" x 11-3/8")
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Weight	5kg (11lbs)
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Mounting	19"-rack mount
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Color	RAL7016
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ENVIRONMENTAL

Operating temperature	-5°C - 55°C (23°F - 131°F)
Storage temperature	-40°C - 70°C (-40°F - 158°F)
Relative humidity	15% to 90%
Air pressure	600 to 1100hPa

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