# DELIVERING YOUR MESSAGE

# **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 fibreoptic 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 lineimpedance line 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. IDA8C provides the zones and audio in & out expansion of the IDA8 Systems, using a secured 48-channel audio and data network over CAT5 or fiber optic, which can be a network of one controller and a maximum up to 31 Slave units via ATEÏS 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 provides extension of 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 7.711, G.722, G.726, G.727 and WAV format from a computer using the ATEÏS 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 ATEÏS 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

ATEÏS

- Support a maximum up to 31 slave units in ATEÏS Local-Net
- Up to 256 zones provision via ATEÏS 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 Fiber-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 of 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)
- Export the incident log
- 2U standard 19" rack mounting
- EN54-16 certified, UL listed

DELIVERING YOUR MESSAGE

**INSTALLATION NOTES** 



ATEÏS



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

### **CONTROLS AND INDICATORS**

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

**INTERCONNECTIONS** 

· 8 analogue audio mic/line inputs/outputs (Optional)

**CERTIFICATIONS AND APPROVALS** 

**REGIONAL CERTIFICATIONS** 

EN54-16 certified 2012

according to EN50130 - 4

CE - 0359

EN50121 - 4

UL60065

· 2 system LOCAL-network connections

· 2 connections for back-up amplifiers

Voice Alarm

Railway Controller

System

Safety

Zone LEDs (EVAC / Fault )

ATEÏS

Front

Power LEDs

· AC power socket

24VDC backup power input
BYPASS Mode output
9 control inputs
8 control outputs

· 8 amplifier in and outputs

Telephone Card (Optional)
2 monitored paging console inputs

Europe

USA

Rear

#### **PARTS INCLUDED**

Quantities	Components
1	IDA8SABxx Slave unit
1	Power cord (type depends on region)
1	Set of mounting brackets for 19" rack
1	Set of connectors

### **TECHNICAL SPECIFICATIONS**

230/115 VAC ±15%, 50/60 Hz
48 W

Voltage 18 - 30 VDC

### Performance

Frequency response ±1 dB @ 20 Hz and 20 kHz

Line inputs	(Optional audio input card)	
Connector	3-pin phoenix	
Frequency response	$\pm 1~\text{dB}$ @ 20 Hz and 20 kHz	
SNR	>81 dBA	
THD	< 0.02% @ 1 kHz	
Input sensitivity	0~66 dBu / 6dB steps	
Input impedance	10 kohm	
Line outputs	(Optional audio output card)	
Connector	3-pin phoenix	

SNR	>81 dBA
THD	< 0.02% @ 1 kHz
Signal	OdB
Output impedance	<100 ohm

Amplifier lines in	1 x 100V (per channel)		
Max rated output powe	r 1000 W (cont. at 40°C)		
Frequency response	-3 dB @ 50 Hz and 18kHz		
Input level	16 dBu		
Loudspeaker lines out	2 x (per channel)		
Rated output power	1000 W (cont. at 40°C)		

#### Mechanical

Dimensions (With 19" rack mount brackets)			
(H x W x D)	2RU, 88 x 486 x 289 mm		
	(3-1/2	" x 19" x 11-	3/8")
Weight	5 kg (	11 lbs)	
Mounting	19"-rack mount		
Color	RAL7016		
Environmental			
Operating temperature	E00	EE00 (000E	10100

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



