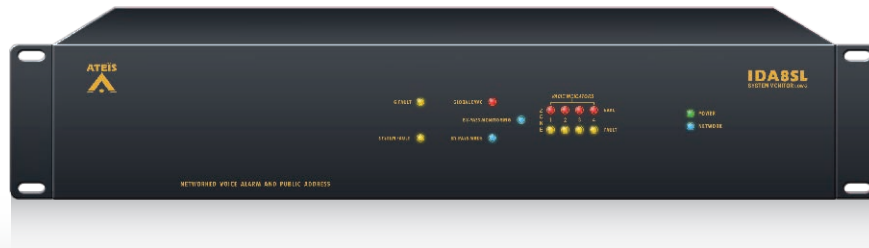


IDA8SL



Networkable PA/VA System, Secondary Unit, Low Impedance Mode

IDA8SL is a secondary unit for the IDA8 Networkable PA/VA System. IDA8SL responds to Public Address and Voice Alarm requirements as stated in EN 54-16 standard with specific attributes for compliance in large installations.

The IDA8SL low impedance 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 low impedance line monitoring. It can support up to 2 PSS-AS monitored microphone consoles, up to 4 monitored amplifiers plus 1 backup amplifier and paging into 4 different zones per unit with line detection. 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, compressors, limiters and delay-lines.

IDA8SL Secondary Units provide extension of IDA8 System configuration with an additional 4 output zones and 1 back-up amplifier.

Digital messaging can be stored in the unit for live or scheduled playback. Files are uploaded in G.711, 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 IDA8SL or a total of 48 message channels across a full IDA8 System with secondary units.

IDA8SL is easily configured with PC-based ATEIS Studio global software. Once programmed, the system will run independently without a PC connected. The IDA8SL Secondary Unit operates either on 110 VAC or 230 VAC mains power or on a 24 VDC power supply emergency back-up, with automatic switchover. Both of the power supplies are monitored.

In accordance with EN 54-16, 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 internally generated pilot tone is available for monitoring impedance on the loudspeaker lines. IDA8SL supports redundant network cabling as a redundant loop. The system can handle up to 132 zones with 1~99 priorities, satisfying even the most complex Public Address and Voice Alarm requirements.

FEATURES

- Up to 31 secondary units in ATEIS Local-Net (132 zones)
- 2 dedicated and monitored PDC-ports for paging consoles
- 1 dedicated audio input/output for back-up amplifier
- Enhanced loudspeaker line monitoring for each zone installation
- Simultaneous control and routing of 48 audio channels over dedicated network
- 24 bit, 48 k sampling digital A/D converter, 32 bit DSP
- Each of the 4 zones offers 2000 Watt (max.)
- 4 low impedance amplifier inputs and outputs
- Up to 100 m 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 (16 k 16 bit) or 200 minutes in G.722 format of pre-recorded messages
- 4 message players
- Programmable message files, scheduler and 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
- 1 Fault & 1 EVAC relays outputs
- Programmable 132 priority paging zones with priority (1~99)
- Export the incident log
- 2U standard 19" rack mounting
- EN 54-16 certified

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CERTIFICATIONS

Europe	Voice Alarm	EN 54-16
		CE-0359
		Selon EN 50130-4
USA	Safety	UL 60065

PARTS INCLUDED

Quantities	Components
1	IDA8SLxx Secondary Unit
1	Power cord (type depends on region)
1	Set of mounting brackets for 19" rack
1	Set of connectors

CONTROLS AND INDICATORS

- **Front**
 - Status LEDs (Network / Bypass Monitoring / Bypass Mode / G. EVAC / System Fault / G. Fault)
 - Zone LEDs (EVAC / Fault)
 - Power LEDs
- **Rear**
 - 24 VDC backup power input
 - Bypass Mode output
 - 9 control inputs
 - 8 control outputs
 - 2 system LOCAL-network connections
 - 4 low-impedance amplifier in and outputs
 - 1 connection for back-up amplifiers
 - 2 monitored paging console inputs

ELECTRICAL

- Mains power supply
 - Voltage: 230/115 VAC ±15%, 50/60 Hz
 - Power consumption: 48 W
- Battery power supply
 - Voltage: 18 - 30 VDC

AUDIO CHARACTERISTICS (GENERAL)

- Frequency response: ±1 dB @ 20 Hz and 20 kHz
- Line inputs (optional audio input card)
 - Connector : SPEAKON (electronically balanced)
 - Frequency response: ±1 dB @ 20 Hz and 20 kHz
 - SNR: > 81 dBA
 - THD: < 0.02 % @ 1 kHz
 - Input sensitivity: 0 ~ 66 dBu / 6 dB steps
 - Input Impedance: 10k ohm
- Line outputs (optional audio input card)
 - Connector : Euro block
 - SNR: > 81 dBA
 - THD: < 0.02 % @ 1 kHz
 - Signal: 0 dB
 - Output impedance: <100 ohm
- Amplifiers lines in (per channel)
 - Frequency response: -3 dB @ 50 Hz and 18 kHz
 - Input level: 16 dBu
- Loudspeaker out (per channel)
 - Max rated output power: 2000 W (cont. at 40°C)

MECHANICAL

- Dimensions (W x H x D): 486 x 88 x 300 mm
- Weight: 4.2 kg
- Mounting: 19" - rack mount
- Color: RAL7016

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 1100 hPa

ORDERING INFORMATION

- IDA8SL: Networkable PA/VA System, Secondary Unit, Low Impedance Mode

