IDA8C-SW

NETWORKABLE PAVA SYSTEM CONTROLLER – SWITCH MODE

MAIN CHARACTERISTICS

- Support a maximum up to 31 slave units in ATEÏS Local-Net
- Up to 8000 zones provision via ATEÏS Global-Net
- Fully digital with 8 audio inputs and 8 audio outputs
- 4 x 1000 Watt maximum load
- 4 channel audio distribution for EVAC, Paging, BGM & Backup
- Combined back-up amplifier function
- 4 dedicated and monitored PDC-ports for paging consoles
- Enhanced loudspeaker line surveillance for AB-zoned installation
- Simultaneous control and routing of 48 audio channels over dedicated network
- 24bit, 48k sampling digital A/D converter, 32bit DSP
- Up to 100m by using CAT-5 cable with NET-C1
- Optional Fiber-optic cards for links up to 20 km
- Modbus Protocol interface via TCP/IP or RS485
- Digtial storage for up to 100 minutes in WAV format (16k 16 bit) or 400 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
- UL listed

IDA8C (switch mode) supports up to 4 audio sources including Evac/ Voice/ Music/ Backup, utilizing with a maximum capacity of 1000 W for each and the choice of audio source can be selected from one source only for the systems. Featuring 8 monitored zones for 25V/70V/100V outputs with simultaneous selection, control inputs, and contact outputs. IDA8C (switch mode) 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, providing with 256 paging zones with priorities (1~99). Furthermore, IDA8C is capable to expand up to 8000 zones via ATEÏS global-net, satisfying with the most complex public address and voice alarm requirements.

The IDA8C (switch mode) requires up to 4 channel amplifier and be capable to act as a backup amplifier in case other amplifiers break down. In case of evacuation, the zones attenuators will be bypassed automatically and signal output shall be activated when certain zone is occupied with a source that has a higher priority than the music alarm or voice paging. Two card slots are provided for either 4-channel 0dB audio input or 4-channel audio cards. Optional AES/EBU cards are also available.

IDA8C (switch mode) Controller unit is capable to run an impedance scan of all the components, covering not only the input paging consoles but the cabling, and processing blocks such as compressors and limiters, delay lines, network and loudspeakers. Digital messaging (G.711, G.722, G.726, G.727 and WAV format) can be stored for live or pre-recorded playback. It stores a reference measurement of the system as users create a given configuration. This reference will be subsequently stored in the system. Any alterations of this configuration will be reported and logged in an event log file as well. The custom setting of threshold shall be applied in it, allowing users to meet each circumstances.

Password protecting to the software allows you to protect all recorded data file which shall be consulted both on the front LCD display panel and in the ATEÏS-Studio global version software (Windows compatible) via the PC. Once programmed, the system enables to work independently(off-line) without the need of connecting to the PC. Also, any detected fault shall be signaled by a general fault on the front panel of IDA8C (switch mode) Controller unit.

IDA8C (switch mode) controller unit enhances the abilities to connect with the touch panel microphone consoles (PSS-AS) and programmable transfer contacts. As well as to support the system operation via PC, or 3rd party control such as Crestron or AMX and other control systems to meet users' demands.

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CONTROLS AND INDICATORS

Front

- 3.5" full color touch-screen LCD display
- EVAC / Zone selection buttons
- Fireman microphone
- Status indicators (Power / Network / Bypass)
- Monitoring / G. EVAC / G. Fault)

INTERCONNECTIONS

Front

- Firemen microphone

Rear

- AC power socket
- 24VDC backup power input
- Fault/EVAC/BYPASS output
- 9 control inputs
- 8 control outputs
- 8 analogue audio mic/line inputs/outputs (Optional)
- Ethernet (100BASE-TX)
- Local / Global network in/out card
- 4 amplifier inputs and outputs
- 4 monitored paging console inputs
- BNC (Optional with AES-EBU)
- Telephone Card (Optional)

CERTIFICATIONS AND APPROVALS

REGIONAL CERTIFICATIONS

Europe	Voice Alarm	EN54-16 certified(Pending)
		CE – 0359
		according to EN50130 – 4
USA	Safety	UL60065

PARTS INCLUDED

Quantities	Components
1	IDA8Cxx-SW Controller unit
1	Power cord (type depends on region)
1	Set of mounting brackets for 19" rack
1	Set of connectors
1	ATEÏS Studio software GUI

TECHNICAL SPECIFICATIONS

Electrical

Mains power supply

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

Battery power supply

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	±1 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	0dB
Output impedance	<100 ohm

Amplifier lines in	4 x 100V
Max rated output power	1000 W (cont. at 40°C)
Frequency response	-3 dB @ 50 Hz and 18kHz
Input level	16 dBu

Loudspeaker lines out	16 (8 zones x 2 A/B)
Rated output power	1000 W (cont. at 40°C)

Mechanical

Dimensions (With 19" rack mount brackets)	
(H x W x D)	2RU, 88 x 483 x 305 mm
	(3-1/2" x 19" x 12")
Weight	6.2 kg (13.65 lbs)
Mounting	19"-rack mount
Color	RAL7016

Environmental

Operating temperature	-5ºC ~ 55ºC (23ºF ~ 131ºF)
Storage temperature	-40ºC ~ 70ºC (-40ºF ~ 158ºF)
Relative humidity	15% to 90%
Air pressure	600 to 1100 h Pa

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