

High Security Sound

ATEÏS

Catalogue
2006

Public Address - Voice Alarm - Commercial Audio - Counter Intercom

ATEIS



A few references :

Lyon International airport
Basel International airport
Liège International airport
Paris subway
Lausanne Métro
Marseille Train station
Valence Train station
Johannesburg Casino
Torino Palaoval Olympic stadia
Dubai Snow Center
Turningstoro Building (Sweden)
Milan hospital
Nestlé European Headquarter
Dubai Jumeirah Beach Hotel

Who are we?

With more than twenty years of experience, **ATEIS** has quickly established itself as a leading manufacturer of **Public Address** and **Voice Alarm** systems and of **counter intercoms**. The constant growth of market share in Europe provides confirmation of the quality of **ATEIS's** commercial and technical approach.

The company now offers a full range of sound equipment: microphones, preamplifiers, digital processors, digital audio matrixes, loud-speaker monitoring systems, amplifiers, etc. **ATEIS** designs and manufactures leading products in the voice alarm systems market which have been certified **EN60849** compliant by the TÜV.

ATEIS's activities are currently divided between three companies: **ATEIS France S.A.S**, **ATEIS International S.A.** (based in Switzerland) and **ATEIS Technologies Taiwan**.

Thanks to a development team that includes twenty engineers, and to constant investment, we are able to respond rapidly to the demands of our various markets with specific solutions and cutting edge technology.

We have distributors in more than fifteen countries in Europe and the Middle East, with whom we have carried out major projects.

In choosing **ATEIS**, you are guaranteed a trustworthy partner that can be counted on for the long term.

Visit our web site at **www.ateis-international.com** and please do not hesitate to contact us should you require any further information.

For the **ATEIS International S.A.** team,

Claude Juriens
Director

Index

PUBLIC ADDRESS - VOICE ALARM

| | |
|---|------------|
| PAVA product range overview | 4-5 |
| SINAPS Compact | |
| IDA4 | 6 |
| SINAPS M/XM | |
| IDA 4M - IDA 4Ms - IDA 4XM - IDA 4XMs | 7-8 |
| IDA 4SU | 9 |
| SINAPS with LAP for networked applications | 10 |
| SINAPS security microphones | |
| PSSDT - PSS KB - SHM 1 - SPM 1 | 11 |
| SINAPS accessories | |
| DIGI M1 - DIGI M4 - DIGI INT - PABFMP - PS 24 | 12 |
| Security amplifiers | |
| SPA 480 - SPA 2060 - SPA 2120 - SPA 2240 - SPA 4060 - SPA 4120 | 13 |

COMMERCIAL AUDIO

| | |
|---|--------------|
| LAP networked digital audio system | 14-18 |
| UAP programmable DSP audio matrix | 19-20 |

COUNTER INTERCOM

| | |
|--|--------------|
| MAGELLAN full duplex digital counter intercom | 21-22 |
|--|--------------|

REFERENCES

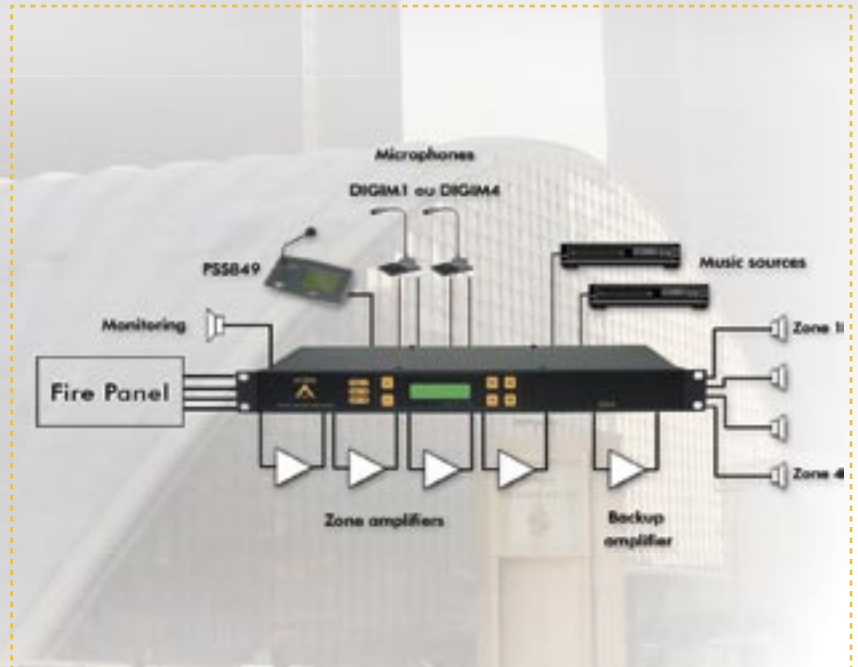
23

PUBLIC ADDRESS AND VOICE ALARM

SINAPS Compact

Small matrix application

- 5 Inputs x 4 zones Matrix
- 4 Audio channels
- DSP based (EQ+level +delays)
- Amplifiers and speaker lines surveillance (continuous)
- EN60849 and BS5839 compliance
- 4 Digital messages
- 4 Music inputs
- Up to 2 security MIC inputs
- Front panel set up.



SINAPS M/XM

Medium to big matrixes applications

- Cascading up to 64 IDA modules
- Up to 256 inputs to 256 outputs Matrix
- 32 digital audio channels
- DSP based (EQ+level+delays)
- Amplifiers and speaker lines surveillance (continuous)
- EN60849 and BS5839 compliance
- Up to 12 Digital messages
- 4 Simultaneous messages play
- Up to 32 security microphones
- Music remote control from PSS
- AGC (XM version)
- Remote controlling from Master location
- PC set up.



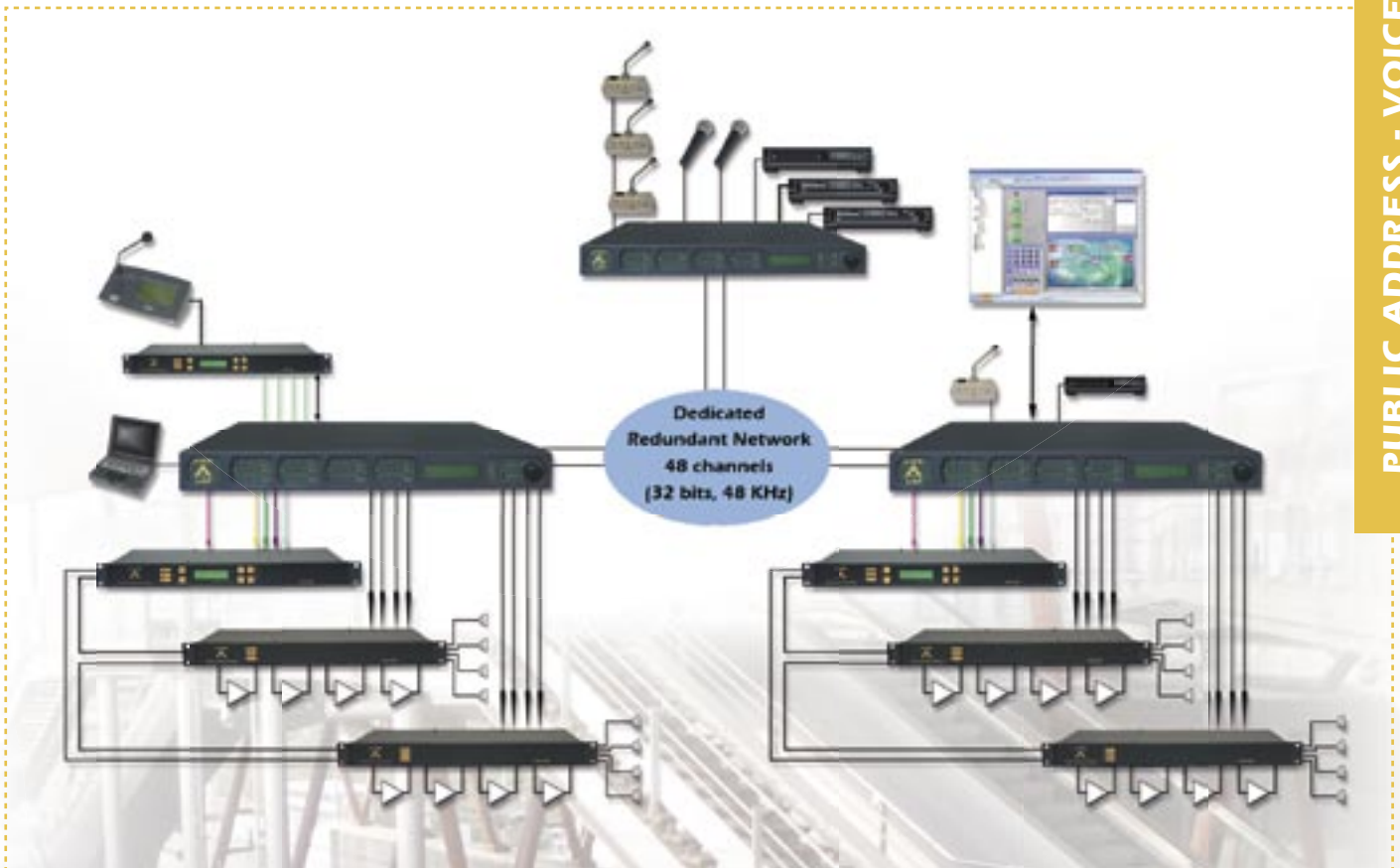
PRODUCT RANGE

EN 60849 / BS5839

LAP and SINAPS

Networked applications

PUBLIC ADDRESS - VOICE ALARM



- Up to 32 LAPs
- Up to 12 zones per LAP
- Up to 16 inputs per LAP
- More than 16 microphones per LAP
- 44 Digital PA channels
- 4 Alarm channels
- Free DSP architecture
- Amplifiers and speaker lines surveillance (continuous)

- EN60849 and BS5839 compliance
- 8 Digital messages per LAP rack
- 4 Simultaneous messages play
- Remote controlers (sources+levels)
- Presets
- AGC
- Remote controlling from Master location
- PC set up
- User friendly GUI.

SINAPS-Compact

IDA 4

Compact audio system for Public address and evacuation (EN60849)

PUBLIC ADDRESS - VOICE ALARM



SINAPS-Compact responds to public address requirements and EN60849 compliance for small and medium-scale installations. It works autonomously and its single unit comprises: audio digital signal processing (DSP), a digital message player, amplifiers monitoring with switchover to backup amplifier, and loudspeaker lines monitoring.

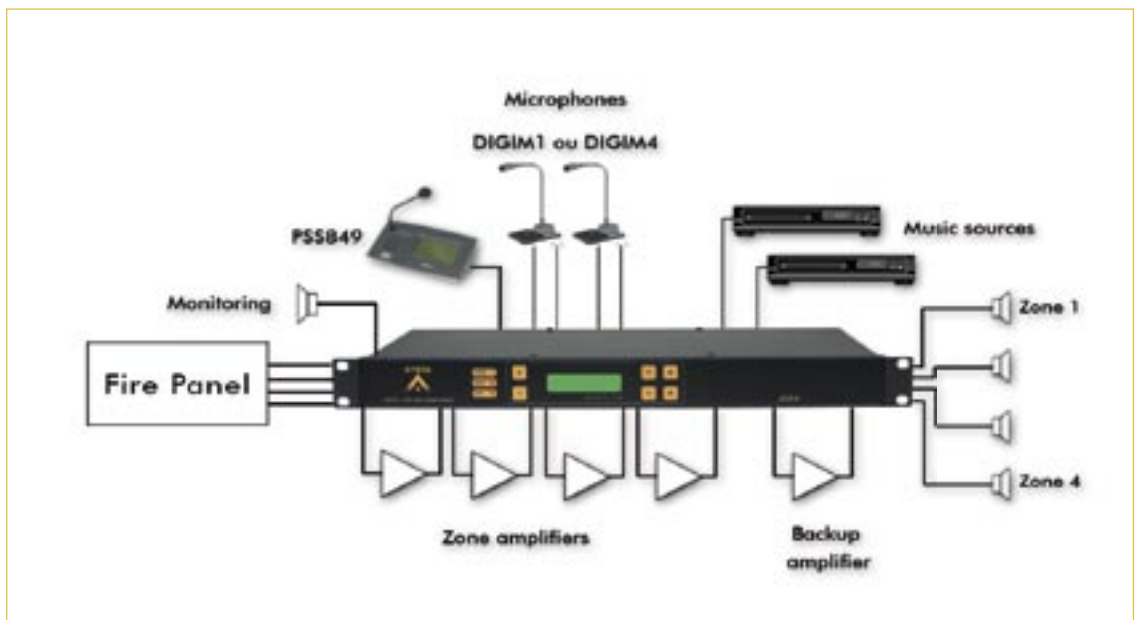
It can support 1 PSS849 security microphone console with touchpad and can process and route another four 0dB audio inputs into 4 different zones. Each channel is fitted with volume control, equalizers, and a programmable delay. Each 0dB input features contact and VOX activation (ideal when using the cordless microphone, for example). Four digital messages can be recorded through audio inputs or downloaded as WAV files directly from a computer into IDA. A security message is pre-programmed in 4 languages. SINAPS-Compact is fitted with 4 alarm inputs and 4 input contacts making it possible to obtain pre-programmed routings. The 4 output contacts can be used to disable the 100V line attenuators.

As an EN60849 security system, all SINAPS-Compact functions and peripherals are monitored. All incidents are recorded into a data file which can be consulted on the display screen. Also any detected faults are signalled by a general fault output contact. A local loudspeaker output enables selective listening to the messages and the system's 100V output signals. Control keys and the front LCD screen can be used to configure SINAPS-Compact. Access can be password-protected.

MAIN PROPERTIES

- 5 audio inputs (1 emergency broadcast microphone + 4 x 0dB balanced inputs)
- Monitoring of four 100V Loudspeaker zones
- Max 500W per zone /amplifier.
- Monitoring of 4 zone amplifiers + 1 backup amplifier
- Full monitoring of the PSS microphone console (capsule, screen, touchpad, connections)
- Digital message player (4 messages, total length up to 2mins. 11secs.)
- Digital signal processing (DSP)
- Parametric equalization: 3 bands on inputs, 7 bands on outputs
- Individual controls for each input and output level
- Separate levels for the security sources
- Free zone labelling
- 9 programmable priority levels (contact or VOX audio routing)
- Programmable delay of 0 to 683 msecs.
- Measurements (levels and impedance) of amplifiers and LS lines
- Incident data record with up to 2048 incidents
- Internal clock

SINAPS-Compact FUNCTIONAL DIAGRAM



SINAPS-M / SINAPS-XM

IDA 4M
Master Module

Audio system for Public Address
and Evacuation (EN60849)

IDA 4Ms
Slave Module



SINAPS-M responds to public address requirements and EN60849 compliance for medium and large-scale installations. It comprises the cascading of an IDA4M master module and one or several IDA4Ms slave modules. This module assembly extends the system's capacity to 256 inputs x 256 outputs.

Each module unit houses: audio digital signal processing (DSP), a matrix, a digital message player, amplifiers monitoring with switchover to backup amplifier, and loudspeaker lines monitoring.

Each module can support 1 PSSxxDT security microphone console and can process and route another four 0dB audio inputs into 4 different zones. Each channel is fitted with volume controls, equalizers, and a programmable delay. Each 0dB input feature contact and VOX activation (ideal when using the cordless microphone, for example). Up to 12 digital messages can be downloaded and recorded as WAV files directly from a computer into IDA. Four messages can be played simultaneously in different zones. A security message is pre-programmed in 4 languages. One of the messages can be used as a chime for the PSS microphone. 4 alarm inputs making it possible to obtain the pre-programmed routings. The 4 output contacts can be used to disable the 100V line attenuators.

As an EN60849 security system, all SINAPS-M components and peripherals are monitored. All incidents are recorded into a data file which can be consulted on the master module monitor display or on a PC. Also any detected faults are signalled by a general fault output contact.

A local loudspeaker output enables selective listening to all the sources and the system's 100V output signals.

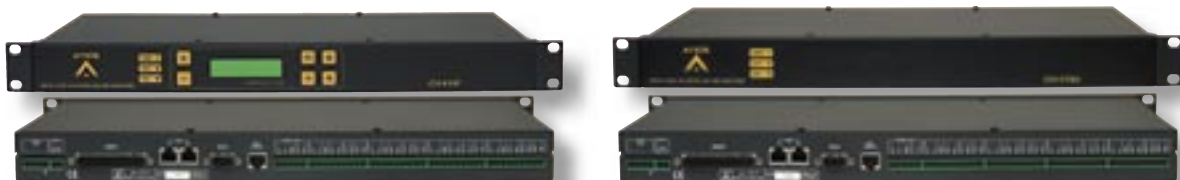
The setup of SINAPS-M is realised through a PC computer and the PCIDA4XM configuration software. (Windows compatible). Access can be password-protected.

The routing and the level of the music sources can be controlled directly from the PSS microphones. Furthermore, SINAPS-M can be combined with the IDA4SU when fault back microphone and a+b wiring features are requested.

PUBLIC ADDRESS - VOICE ALARM

IDA 4XM
Master Module

IDA 4XMs
Slave Module



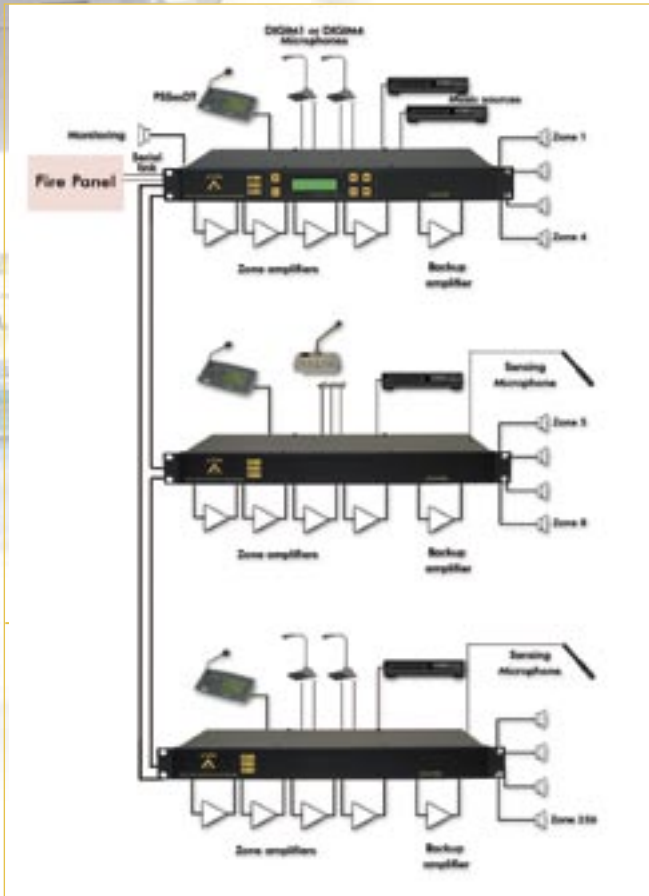
In comparison with SINAPS-M, SINAPS-XM has following additional features:

- 1) automatic Gain Control: one sensing microphone (PABFMP) per IDA could be connected to one of the audio inputs. It will allow IDA to make an intelligent measure of the noise level and adapt the gain of the corresponding zone(s).
- 2) Several Racks of SINAPS-XM can be remote controlled from a Master location.
- 3) A MODBUS protocol allows third party system to control SINAPS-XM over a serial link.

All these features make SINAPS-Product range the ideal system for shopping malls, hotels, restaurants, museums and many other public places.

SINAPS-M / SINAPS-XM

PUBLIC ADDRESS - VOICE ALARM

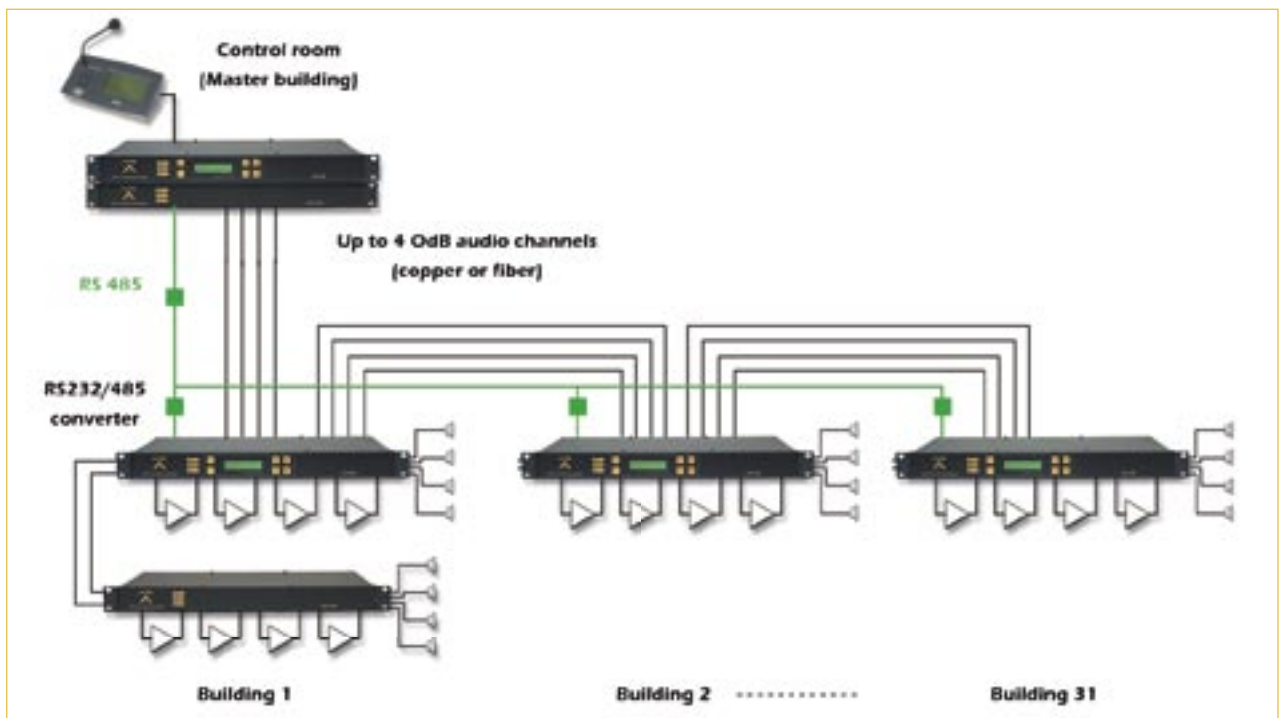


MAIN PROPERTIES

- From 5 to 256 audio inputs (0 dB balanced)
- Up to 32 PSSDT security microphone consoles with touchpad
- Monitoring of 4 to 256 100V Loudspeaker zones
- Max 500W per zone /amplifier.
- Monitoring of 4 to 256 zone amplifiers
- 1 to 64 backup amplifiers
- Full monitoring of PSS microphone consoles (capsule, screen, touchpad, connections, LS)
- Digital message players (12 messages, total length up to 2min 11 sec.
- One message can be define as customized chime
- Digital audio bus between modules (32 channels, bandwidth: 20 kHz)
- Digital signal processing (DSP)
- Separate levels for the security sources
- Parametric equalization: 3 bands on inputs, 7 bands on outputs
- Individual controls for each input and output level
- Separate levels for the security sources
- Free zone labelling
- 100 priority levels (contact or automatic detection activation)
- Programmable delay of 0 to 683 msec.
- Measurements (levels and impedance) of amplifiers and LS lines
- Incident data record with up to 2048 incidents
- Possibility to store the event log file on a computer
- Internal clock

SINAPS-XM
FUNCTIONAL DIAGRAM

SINAPS-XM Remote controlling



SINAPS-M / SINAPS-XM

IDA4SU

MAIN PROPERTIES

- Microphone fault back.
- a+b speaker circuits surveillance.
- Separate LEDs for fault back and speaker circuits status.
- Surveillance of 8 speaker circuits (4 zones).
- Setup integrated in Sinaps-M/XM softwares..
- 230VAC availability LED (green).
- EN60849 and BS5839 part 8 compliance.

Fault back and Switching unit



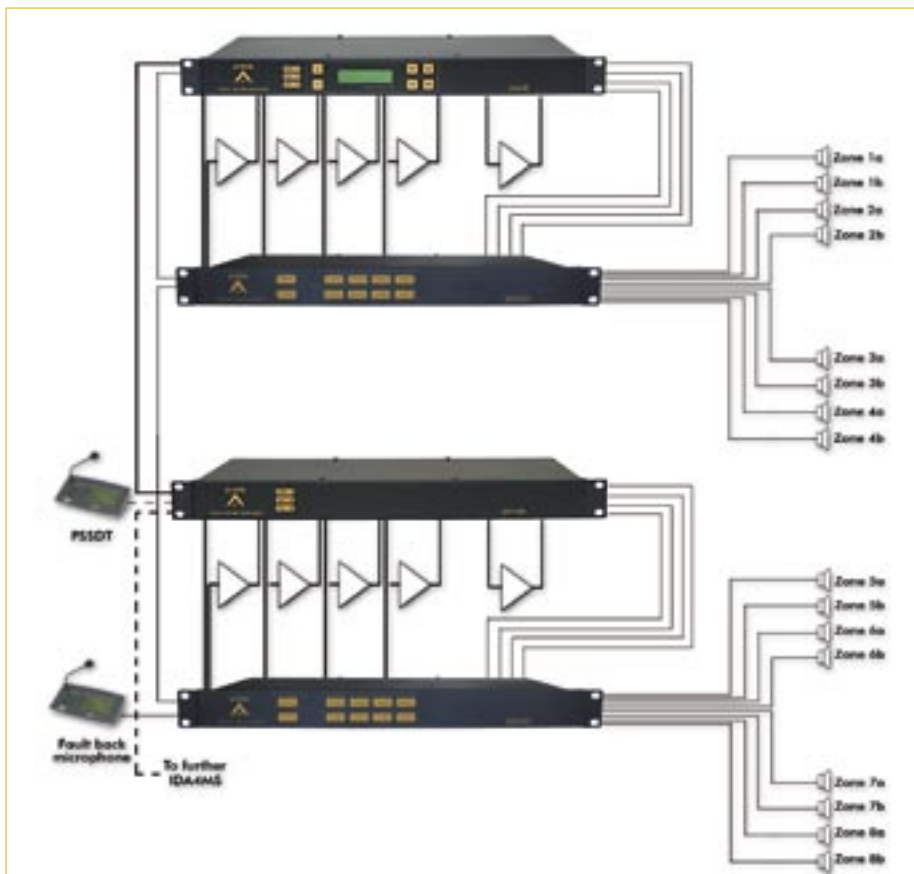
The IDA4SU is an optional unit that will provide the SINAPS-M and SINAPS-XM systems with the following additional features :

- 1) Fault back microphone : in case of failure of one or more IDA4M/S modules, the IDA4SU will automatically connect one PSS microphone directly to all amplifiers inputs, allowing the user of the system to make an all call announcement.
- 2) a+b zone wiring on same amplifier : when two speaker circuits are used in a zone, they can be connected to the same amplifier. The IDA4SU unit will take care of the separate line surveillance according EN60849 and BS5839 part 8 regulations. If one of the speaker circuit is shorted, then it will be disconnected without influencing the other circuit of the corresponding zone.

The front panel LEDs will provide following information :

- 1) Separate zone circuit status (Yellow if zone circuit is Faulty)
- 2) Fault back microphone function (Yellow if bypass mode active)
- 3) Power (Green if power supply is OK)

The IDA4SU setup is supported by the SINAPS PC configuration software and does not require any additional programming.



IDA4SU
FUNCTIONAL DIAGRAM

PUBLIC ADDRESS - VOICE ALARM

SINAPS with LAP

LAP

For Network applications

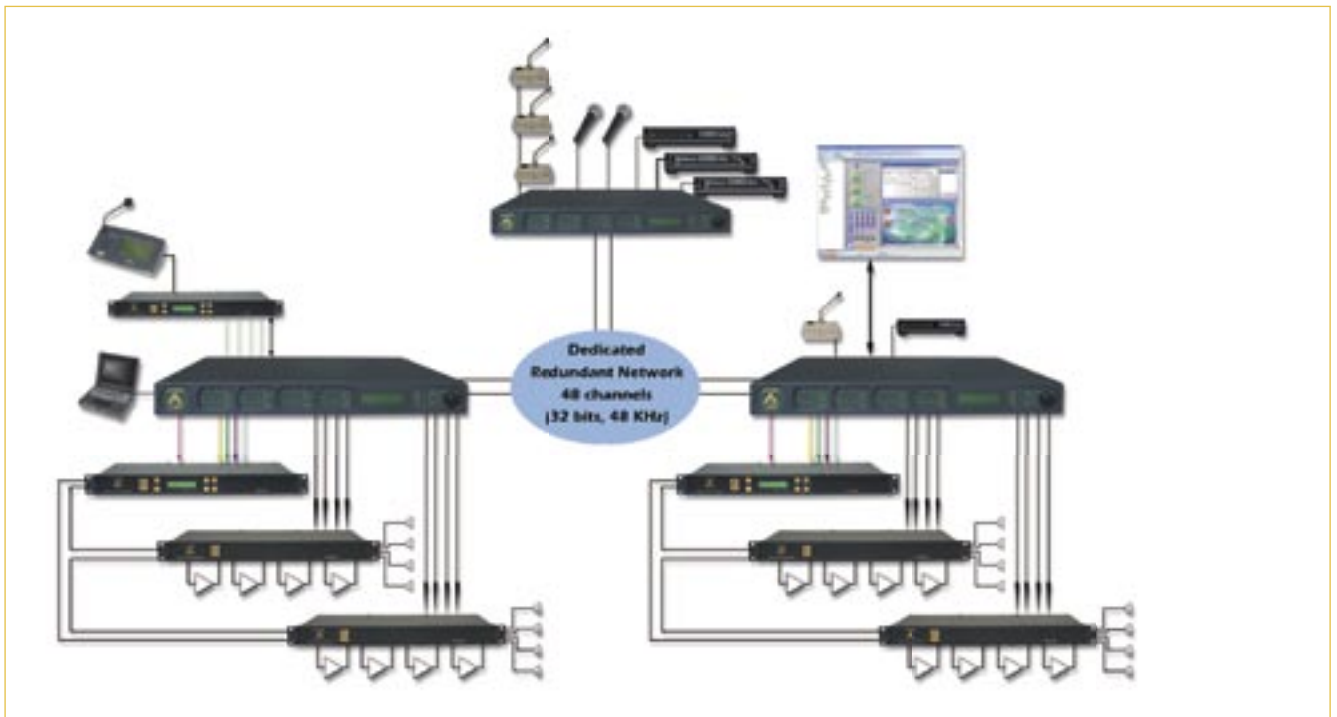
PUBLIC ADDRESS - VOICE ALARM



Designed for **PRO Audio** and **Commercial** applications, the LAPs are the first products to combine the following features in a single box:

- Internal processing of audio signals can be fully programmed to suit the client's application.
- Sonic excellence.
- Impressive array of signal processing tools.
- Easy to use PC software for system design and control (GUI).
- Advanced Preset manager.
- Powerful microphone paging and remote control functions.
- Digital message player with scheduler.
- CAT5 and fiber optic redundant audio networking capabilities.
- Highly flexible input and output configurations.

Huge decentralised systems can be created when the **SINAPS** and **LAP** products are linked together, combining the DSP and networking power of the **LAP** with the **EN60849/BS5839** compliance of **SINAPS**:



SINAPS security microphones

PSSDT

Touch Screen Security Paging Microphone

The ATEIS PSSDT paging microphone console is a man-machine interface which groups together all functions required by the EN 60849 and BS5839 part 8 regulations. Its back-lit touchpad makes for simple and user-friendly operating.

It can be configured either using a PC computer, or by using control keys and the front LCD screen of the SINAPS module to which it is connected. Access can be password-protected.

All parameters needed for site operating can be programmed: zones assigned to the different buttons, name of zones, zone groups, priorities, access to different messages, levels adjustments, pre-call chime, press-to-talk, music ON/OFF and music routing.

Its large LCD screen provides an overall view of busy zones and active sources. A VU meter controls the microphone presence and modulation level.

A built-in loudspeaker makes it possible to listen to all system-generated messages and announcements.

The PSSDT console is SINAPS security system interface and is fully monitored (microphone capsule, power supply, touchscreen, audio and RS485 connections). Any system faults are detected, located and indicated clearly on the screen.

Different product references are available to suit all site sizes:

PSS849: 4 zones for SINAPS-Compact (IDA4)

PSS12DT: 12 zones for SINAPS-M and SINAPS-XM

PSS24DT: 24 zones for SINAPS-M and SINAPS-XM

PSS48DT: 48 zones for SINAPS-M and SINAPS-XM

PSS72DT: 72 zones for SINAPS-M and SINAPS-XM

PSS96DT: 96 zones for SINAPS-M and SINAPS-XM



PUBLIC ADDRESS - VOICE ALARM

PSS KB

2 buttons keyboard for PSS microphones

Additional module to be screwed on the side of the PSS microphone.

Several PSS-KB can be mounted on the same PSS microphone.

The buttons can be assigned to the following functions :

- 1) Fault back Microphone triggering
- 2) Messages triggering



SHM 1

Security handheld microphone

Firemen microphone for All call, group or zone calls.
The EN60849 surveillance is realised thanks to the IDASEC interface.



SPM 1

Security paging microphone

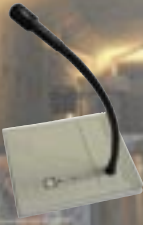
Desk top firemen microphone for All call, group or zone calls.
The EN60849 surveillance is realised thanks to the IDASEC interface.



SINAPS accessories

DiGi M 1

1 zone microphone console



DiGi M 4

4 zone microphones console



DiGi Int

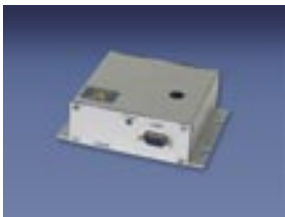
Interface to connect the DiGi M microphones to the IDA system

MAIN PROPERTIES

- Electret cardioid capsule
- Integrated preamplifier with level adjustment.
- Output level max : +6dB balanced.
- Integrated chime with level and tone adjustment.
- Integrated Limiter.
- Free label on each button.
- LEDs for zone selected and busy.
- User definable zone/group assignment to each button.
- Possible cascade of up to 20 consoles (first In, first Out).
- Power supply : 24VDC, 30mA.
- Console dimensions : 125x150x30mm.
- Gooseneck : 250mm.
- Housing color : light grey.
- One DiGi-Int interface is needed per IDA.

PABFMP

Sensing microphone



The **PABFMP** houses an heavy duty sensing microphone and a specially designed preamplifier. The 0dB audio signal is send to one **IDA4XM** input allowing the system to automatically control the amplification (AGC) depending on the ambient noise.

PS 24

Power supply and Audio Monitoring Unit



The PS24 is an optional unit that will provide the SINAPS systems with the following additional features :

1 - 24VDC power supply : the PS24 is a 230VAC to 24VDC power converter able to deliver up to 4.5A at 24VDC. Thus, up to 6 IDAs and 6 PSS or 12 IDAs can be powered from the PS24. The six 24VDC output connectors together with the battery backup input allow for easy and clean rack wiring.

2 - The 8Ω - 1W loudspeaker mounted on the PS24 front panel can be connected directly to the SINAPS modules for in rack audio sources or zones monitoring. Those features will greatly facilitate the wiring and rack mounting of the SINAPS range.

Security Amplifiers

MAIN PROPERTIES

- Balanced 0db inputs.
- 100V outputs.
- Thermostatic ventilation.
- Power supply internal surveillance.
- 230VAC and 24VDC power supply.
- "Amplifier status" contact output.
- Connexions on detachable screw-on terminal boards.
- Bridged mode accepted.

The SPA (Security Power Amplifier) is designed for perfect integration into the SINAPS system, but thanks to its flexibility, it can also be used for any Public Address application.

The SPA amplifiers were specifically developed to meet the requirements of EN60849 for safety installations.

Each amplifier module is fitted with its own 220VAC/24VDC power supply for increased system reliability.

To avoid handling errors, the volume output is set using the potentiometer located at the back of the apparatus.

Further to standard protection via fuses, SPA amplifiers also have electronic and thermal protection to protect them from all potential hazards.

A ventilator provides forced cooling for the final power shelves and internal parts of the apparatus. It starts up automatically when the heat shunt reaches a certain temperature threshold, and stops when the temperature returns to normal values.

Four LEDs display the status of each amplifiers: AC or DC power supply, Line Overload and Temperature overload.

Furthermore, a three LEDs Vu-Meter indicates the presence and level of audio signal.

A surveillance circuitry is continuously monitoring the temperature and the presence of AC and DC power supplies for both amplifiers. In case of a problem, the overload LEDs will be switched ON and the Fault relay will be activated.

The channels can be bridged together in order to create a single channel amplifier with twice or four time the power.

100V amplifiers



SPA 480
1 x 480W amplifier



SPA 2060
2 x 60W amplifier



SPA 2120
2 x 120W amplifier



SPA 2240
2 x 240W amplifier



SPA 4060
4 x 60W amplifier



SPA 4120
4 x 120W amplifier

PUBLIC ADDRESS - VOICE ALARM

NETWORKED programmable digital audio system

LAP

COMMERCIAL AUDIO



LAP-4 In 12 Out: 4 inputs-12 outputs Digital Audio System

LAP-8 In 8 Out: 8 inputs-8 outputs Digital Audio System

LAP-12 In 4 Out: 12 inputs-4 outputs Digital Audio System

LAP-16 In: 16 inputs Digital Audio System

LAP-16 Out: 16 outputs Digital Audio System

Designed for PRO Audio and Commercial applications, the LAPs are the first products to combine the following features in a single box:

- Internal processing of audio signals can be fully programmed to suit the client's application.
- Sonic excellence.
- Impressive array of signal processing tools.
- Easy to use PC software for system design and control (GUI).
- Advanced Preset manager.
- Powerful microphone paging and remote control functions.
- Digital message player with scheduler.
- EN60849 and BS5839 surveillance features.
- CAT5 and fiber optic redundant audio networking capabilities.
- Highly flexible input and output configurations.

Sonic excellence

The advanced 24 bits A/D and D/A converters, together with 192kHz-capable audio processing and the two 600 Mflops DSP chips guarantee an excellent sound quality.

Impressive array of signal processing tools

The LAP are comprehensive systems which integrate pre-amplifier, compressor-limiter, equalizer, as well as matrixing and delay functions into one unit. Useful features like Automatic Gain Control, Feedback killers, Automatic Microphone mixers and Crossovers are also part of the LAP DSP components library.

Internal processing of audio signals can be fully programmed to suit the client's application.

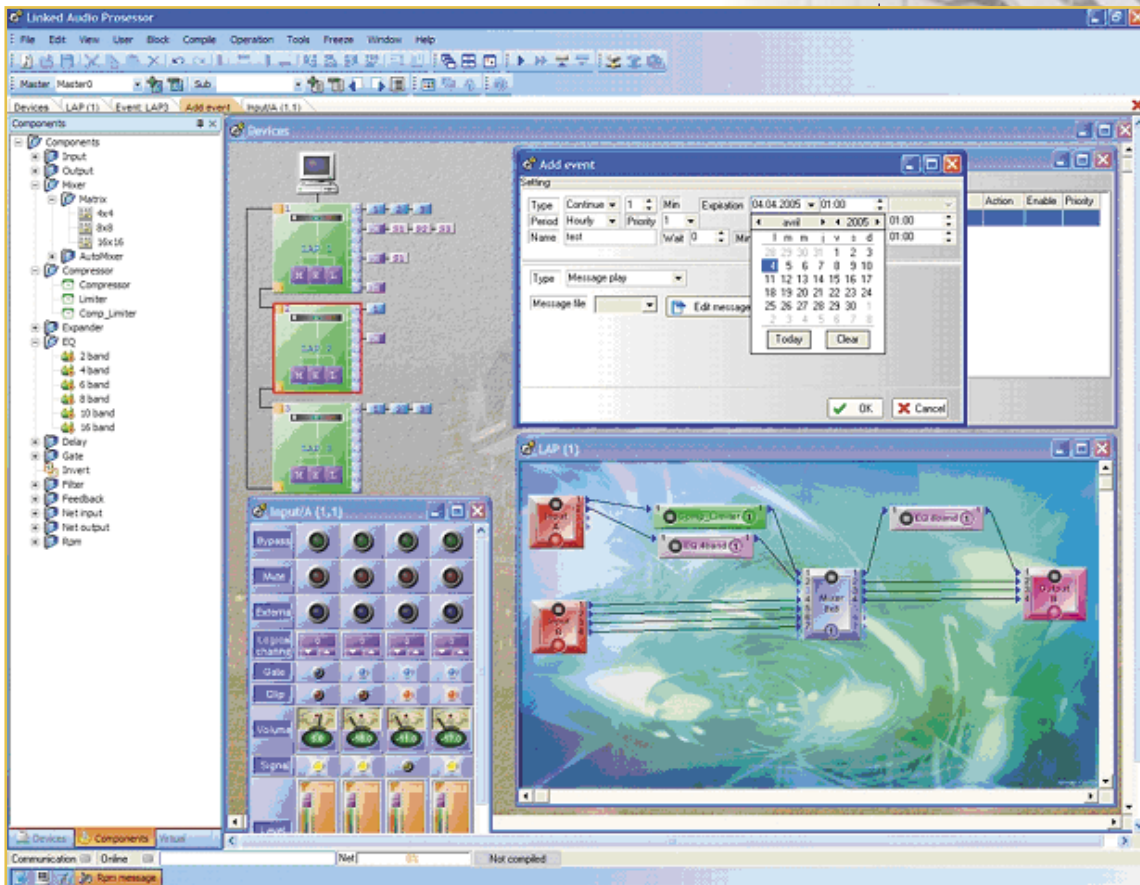
Installers can select the audio processing feature(s) which they wish to apply to the various inputs and outputs from a library on their PC, using software provided with the LAP. Once the configuration process is complete, it can be loaded into the LAP. All configurations can be backed-up onto PC and loaded into the LAP as and when required.

LAP

Networked Programmable Digital Audio System

COMMERCIAL RANGE

Easy to use PC software for system design and control (GUI)



The **LAP-DESIGNER PC** software provides all the necessary tools to setup and control the hardware and software elements of the **LAP**.

Advanced Preset manager

The **LAP** includes two types of presets :

More than 20 Parameter presets : they enable values of multiple parameters of the same design, such levels, gains, EQ, etc. to be restored either from the PC software, the remote controllers or the control inputs.

More than 10 Design presets : they enable completely different designs to be restored. An application example for this feature are hotel meeting rooms with removable walls.

LAP

Networked Programmable Digital Audio System

Remote control functions

To maintain simple, secure and intuitive interfaces for operators, the LAP offers different types of remote controllers:



RAC5 - Wall-mounted level and 5 sources selectors

RAC8 - Wall-mounted level and 8 sources selectors



URC
Programmable Remote controller with display

Furthermore, custom control panels can run on a PC connected to the LAP network via the USB port of one of the LAP.

Analogue control inputs

The LAP has 10 (0 to 5VDC) Analogue control inputs. Each control can be associated to any of the variable audio processing functions of the LAP (input level, output level, equalization, routing, preset change...). Several parameters (Min + Max values, positive or negative variation, linear, log, anti-log) can be programmed for each of those controls.

8 Logic inputs, 8 Logic outputs (GPIOs)

Each LAP is equipped with 8 logic inputs (TTL) and 8 logic outputs (TTL). Each of those hardware input/output can be associated to virtually any software button the system designer requires. The logic inputs could be used to mute or activate an audio signal, load a preset or start a message while the logic outputs enable the LAP to control external equipment. The logic inputs can be used in normal or binary mode. The binary mode is providing the system designer with 64 different states.

RS-232 serial interfacing for third party control

The LAP can be controlled from third party equipment like AMX or Crestron via its RS232 serial port. Once the system designer has selected the software controls he wants to be controlled from the third party equipment, the LAP software will automatically generate the corresponding code for the AMX or Crestron devices.

The RS232 link will also be used to control the ATEIS IDA voice alarm equipment from the LAP.

Microphone paging

The LAP can support the following paging microphones:



PPM 8
8 Keys + All Call

LAP

Networked Programmable Digital Audio System

COMMERCIAL RANGE

CAT5 and fiber optic redundant audio networking capabilities

Ateis has developed its own audio networking system "Ateis-Net". This Ethernet based network is able to simultaneously transport 48 audio channels (32 bits, 48KHz sampling rate) with a latency < 1msec together with the necessary control data.

For decentralised or big applications, an optional Ateis-Net networking card can be inserted inside the LAPs.

Thanks to its loop architecture, the Ateis-Net audio network is fully redundant. If a problem (Line open or shorted) occurs on a loop segment, it will be automatically isolated without affecting the system functionalities.

Up to 32 LAPs can be connected together on the same network. As the Network addresses are auto-negotiated, the network set up is very easy.

Different type
of networking cards
are available:



LAP NET1

With two RJ45 connectors for CAT5 cabling, max 100m between two LAPs.

LAP NET2

With one RJ45 connector and one ST-Fiber connector.

LAP NET3

With two ST-Fiber connectors, Multimode, max 2000m between two LAPs.

Digital message player (Availability : end of 2006)

The LAPs can be fitted with an optional Digital Message board. This board will provide 30 min of MP3 (128Kbits-32KHz sampling) audio storage divided into an unlimited number of messages. Up to two audio messages can be played simultaneously per LAP.

The MP3 files are downloaded into the Flash Eeprom of the board directly from the LAP PC setup software. Those MP3 files are triggered either from an input contact, a remote controller or the Event scheduler.

Event scheduler

A comprehensive scheduler with true Calendar features can be programmed to trigger following events: preset change, any internal control change (level, EQ, delay...), TTL output activation, message activation with routing, power ON/OFF and serial link (RS232 + USB) command activation.

The LAP internal clock can be synchronised with an external clock through the LAP RS232 serial link.

EN60849 and BS5839 surveillance features

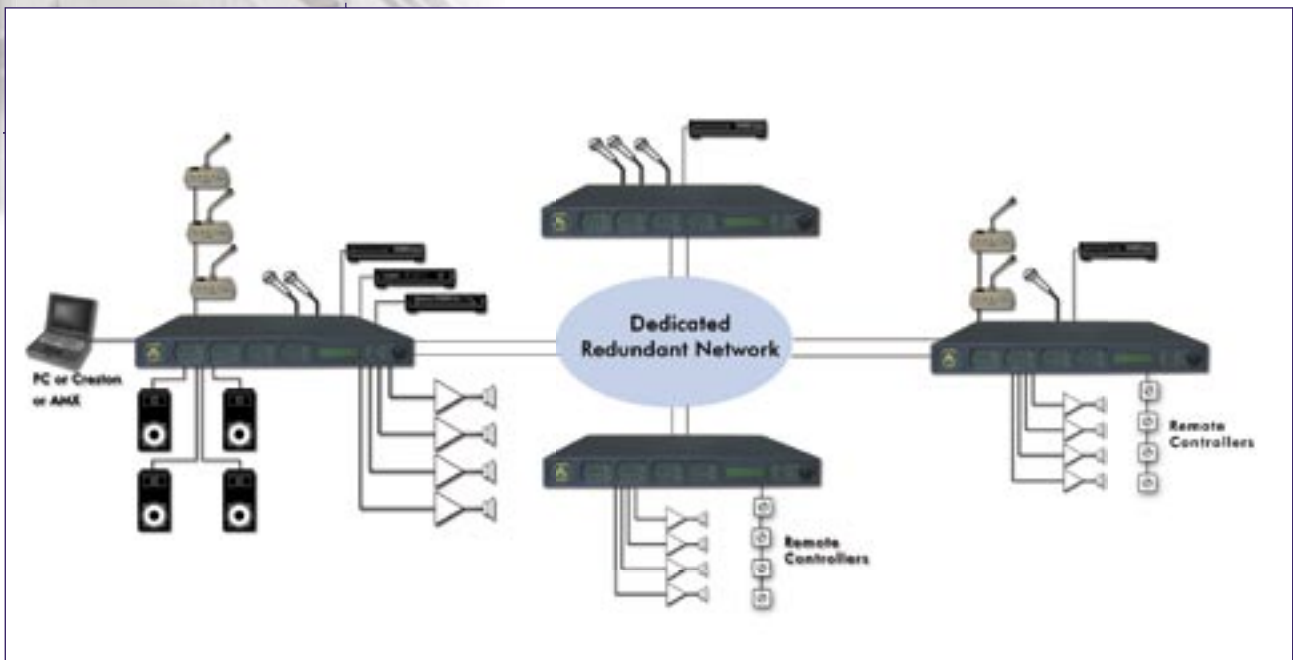
As an EN60849/BS5839 part 8 compliant product, all the internal hardware and software components of the LAP are monitored. All incidents are recorded into a data file and any detected faults are signalled by LEDs and output contact.

Furthermore, thanks to its secured external audio and data paths, the LAP is able to integrate with Ateis Voice alarm products.

LAP

Networked Programmable Digital Audio System

CONFIGURATION EXAMPLE



The front panel display and rotary knob allow following setups to be performed without a PC : Time and date settings, Input and output components control, Scheduler control, Preset change, log file access...Of course, those front panel settings can be password protected.



Audio card

- Clip : yellow
- Signal : green (with sensitivity selection)
- Phantom: green
- Input : green
- Output : green
- AES/EBU : green

Global

- Power OK : green
- Fault : Yellow
- EVAC : Red
- Stand by : Green
- Data : green
- Network : green

UAP 88

MAIN PROPERTIES

- 8 balanced audio inputs (-55 dB to 0 dB switchable)
- balanced audio outputs (0 dB).
- Switchable Phantom Power supply.
- 8 logic inputs and 8 logic output (TTL).
- 6 analogue control inputs (0 to 5VDC).
- 1 RS232 connection for configuration and remote control.

Fully programmable DSP Audio Matrix,
8 inputs - 8 outputs



COMMERCIAL RANGE

The UAP digital-audio processor is a comprehensive system which integrates pre-amplifier, compressor-limiter, equalizer, as well as matrixing and delay functions into one unit. Usefull features like Automatic Gain Control, Feedback killers, Automatic Microphone mixes and Crossovers are also part of the UAP impressive DSP components library. Thanks to its Page Control DSP component, the UAP is able to manage up to 8 microphones (VOX or contact activation) with different priority levels.

Internal processing of audio signals can be fully programmed to suit the client's application.

Installers can select the audio processing feature(s) which they wish to apply to the various inputs and outputs from a library on their PC, using software provided with the UAP. Once the configuration process is complete, it can be loaded into the UAP. All configurations can be backed-up onto PC and loaded into the UAP as and when required.

The user interface comprises 8 dials on the front and 6 (0 to 5VDC) analogue control inputs. Each control can be associated to any of the variable audio processing functions of the UAP (input level, output level, source selection, routing, preset change...). The RAC5 and RAC8 Ateis DC remote controllers are ideally suited to be connected to the analogue control inputs for Level and Source Selection controls.

The UAP can also be controlled via an external system such as Crestron, AMX, or via a PC using an operating program provided with the UAP. This program makes it possible, for example, to load a map or picture of the site and to only integrate the settings which we wish to make available to the final user.

The UAP processor has 8 universal balanced audio inputs and 8 balanced audio outputs. It is also fitted with 8 inputs (TTL) and 8 logic outputs (TTL). Each of those hardware input/output can be associated to virtually any software button the system designer requires. The logic inputs can be used to load a preset, mute or activate an audio signal, while the logic outputs enable the UAP to control external equipment. The UAP processor presents the end user with state-of-the-art technology, while remaining extremely user-friendly thanks to its user interface.

All of these functions make UAP the all-round product for audio applications requiring signal processing, such as churches, auditoriums, congress centres, night clubs, pubs and many other public places.

ACCESSORIES



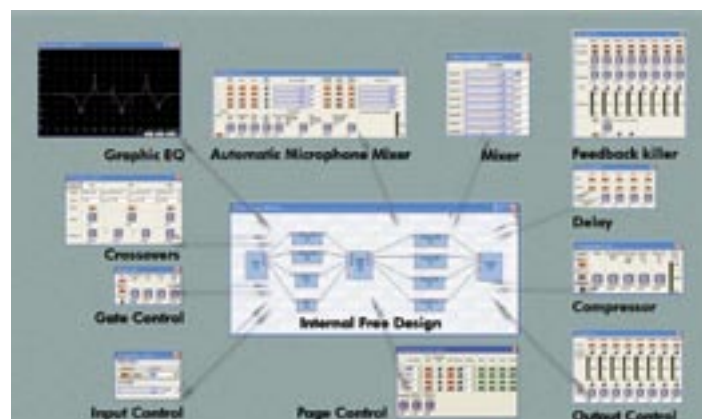
RAC 5

Linear DC remote controller
+ 5 steps DC Controller

RAC 8

Linear + 8 steps DC Controller

AUDIO PROCESSING



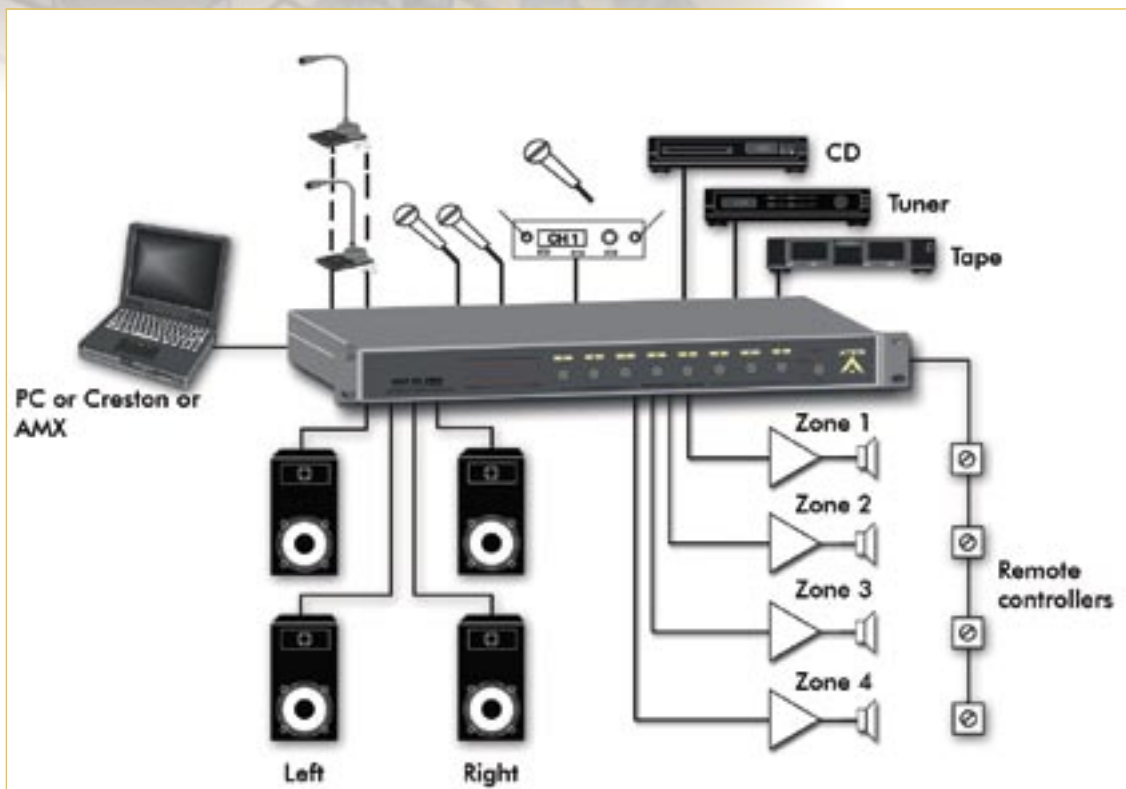
UAP 88

Fully programmable DSP Audio Matrix,
8 inputs - 8 outputs

DSP COMPONENTS

| | |
|----------------------------|---|
| Input Control | Each input can be disabled (Mute) or programmed for contact activation (C1 to C8). The input level can be adjusted and the Phantom power supply can be selected. VU meters display the different signal levels. |
| Gate Control | Each input can be activated by signal detection (Attack time, Release time and Level settings). |
| Crossovers | 2 ways, 3 ways, 4 ways with Butterworth, Linkwitz and Bessel curves slope selectable. |
| PE.Q | 2 to 16-band Parametric filters |
| Filters | High-Low Pass, Band Pass, Notch filters (Butterworth, Linkwitz-Riley, Bessel curves) |
| Matrix Mixer | Matrixes 4 x 4 and 8 x 8 with independent level settings for each input and output |
| Delay | Delay from 1 to 500 msec. with 1 to 8 outputs |
| Compressor /Limiter | Compressor/Limiter (Attack time, Release time, Threshold and Ratio settings) |
| Output Control | Each output level can be adjusted. VU meters display the different signal levels. |
| Automatic Microphone Mixer | 4 inputs and 8 inputs. Manual or automatic priority, AGC, all levels adjustable. |
| Feedback killer | Automatic feedback frequency search and filtering. Several filter types, sensivity and levels can be adjusted. |
| Page Control | Routing matrix with contact or VOX input activation, 8 priority levels. |
| Source Selection | Source selection module associated to one fo the Analogue control inputs. |

CONFIGURATION EXAMPLE



Full Duplex Digital COUNTER INTERCOM

MAGELLAN



COUNTER INTERCOM

MAGELLAN is a digital counter intercom which enables a high quality full duplex connection using digital processing of the audio signal.

The **MAGELLAN** intercom consists of the following components:

- Client Side: a (MC) microphone, one or two loudspeakers (HPU) and a broadcast antenna for hearing impaired people.
- Agent Side: a microphone equipped with control keys and pilot lamps (MAS) and one or two loudspeakers (HPU).
- A central unit (UC) with integrated digital speech processing by DSP (Digital Signal Processor).

The DSP uses a program based on complex algorithms to operate the intercom functions:

- Antilarsen function: to avert larsen effect, an echo cancellation process is used by the program to analyse and define the disturbance signal parameters and to eliminate disturbance from the usable signal. This amounts to breaking the amplification loop on one or two channels, or on both channels simultaneously.
- Automatic variation of the amplification level according to ambient noise levels: the DSP measures the noise level in the hall via the client or agent microphone, and automatically adapts the gain of each channel to maintain good audibility.
- Sound limiter: this reduces the sound level in the speakers when clients speak too loudly or too close to the microphone.
- Level settings and sound activity detection thresholds.

To make the system foolproof, all settings are made using the INGPC software program installed on a laptop computer which is connected to the Central Unit via a RS232 serial connection.

The agent has an intercom power button (ON/OFF) and a power boost button (+6dB) with pilot lamps, in case levels are insufficient.

The BME induction loop for hard-of-hearing people can be adapted to all UC1 central units as an additional option.

MAGELLAN is the ideal intercom solution for applications which need perfect voice transmission, even in difficult acoustic conditions.


MAGELLAN

Full Duplex Digital Counter Intercom

MAIN PROPERTIES

- Full Duplex
- Bandwidth: 8KHz
- Fully digital (DSP)
- Antilarsen via echo cancellation (without filtering)
- Nominal power: 4W/8Ohms
- Programmable output level
- Automatic gain control
- Limiter
- Automatic stand-by-mode
- Anti-vandal microphones and speakers

SYSTEM COMPONENTS

| | |
|---|--|
|  | <p>MC Client microphone: anti-vandal design, uni-directional electret cell. Sensitivity: 14mv/Pa.</p> |
|  | <p>MAS Agent microphone: fitted on flex attached to a built-in support plate comprising the two intercom control keys. Sensitivity: 8mv/Pa.</p> |
|  | <p>HPU Agent/client loudspeaker: anti-vandal design, front in painted steel, gain factor: 85dB/1W/1m.</p> |
|  | <p>BME Strip for hard-of-hearing people: coiling on ferrite bar encapsulated in a PVC tube.</p> |
|  | <p>UC1 Central unit: unit fixed under the plate with a clamp.</p> |
|  | <p>INGPC Operating software for setting parameters and complete setting of the intercom system on-site.</p> |

TECHNICAL CHARACTERISTICS

- | | |
|---|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> Power supply: 230VAC/50Hz/0.2A <input type="checkbox"/> Max input level: -18dBu <input type="checkbox"/> Distortion: <0.4% to 1W <input type="checkbox"/> Max output power/channel: 4Weff. | <ul style="list-style-type: none"> <input type="checkbox"/> Bandwidth: 50Hz-7KHz at 3dB <input type="checkbox"/> Dynamics: >58dB <input type="checkbox"/> Conditions for use: temperature of -10°C to +°C, relative humidity: 100%, water-tightness: IP2 |
|---|--|

References

Security sound system NF EN 60849

| | |
|--------------------------------|------------------------------------|
| BASEL | International airport |
| LIEGE | International airport |
| LAUSANNE | Subway |
| JOHANNESBURG | Casino |
| TORINO | Stadia |
| DUBAI | Snow Center |
| SWEDEN | Turningstoro Building |
| MILANO | Hospital |
| NESTLE | European Headquarter |
| PARIS-LYON-BORDEAUX-MARSEILLES | ZARA SHOPS |
| GRENOBLE | ST Microelectronics Plant |
| LYON | Caisse d'Épargne Bank |
| MONACO | Grimaldi forum |
| BRUXELLES | World Trade Center and Nord Galaxy |
| PARIS | RATP line 11 Symphonie |
| BESANCON | SNCF Railway station |
| METZ | SNCF Railway station |
| PARIS | RER Nation/Étoile station |
| LYON | International airport |

Railway STATIONS

| | |
|---------------------------------|--|
| AIX LES BAINS | |
| LYON PERRACHE | |
| FREJUS-ST RAPHAEL | |
| CHARLEVILLE-MEZIERES | |
| MULHOUSE | |
| MONTLUCON | |
| LE HAVRE | |
| BRIVE | |
| VOIRON | |
| VILLEFRANCHE SUR SAONE | |
| OUEST LYONNAIS | |
| SARREBOURG | |
| CHAMBERY | |
| BREST | |
| MORLAIX | |
| ST BRIEUC | |
| GUINGAMP | |
| VALENCE VILLE | |
| HAZEBROUK | |
| ROANNE | |
| PARIS NORD | |
| VALENCE TGV STATION | |
| AVIGNON TGV STATION | |
| AIX-ARBOIS TGV STATION | |
| NÎMES STATION | |
| MARSEILLE ST CHARLES STATION | |
| BÂLE MULHOUSE AIRPORT | |
| MONACO STATION | |
| ANTIBES STATION | |
| ANGERS STATION | |
| LYON PART DIEU STATION | |
| NANCY STATION | |
| CHASSE/RHÔNE | |
| GRANDMAISON | |
| LA COLLE/LOUP | |
| LYON | |
| MAROC | |
| PARIS | |
| PLAN de CAMPAGNE | |
| ROANNE | |
| Chemical plant Sylachim/Finorga | |
| EDF Hydraulic power plant | |
| High school | |
| Paihe picture palace | |
| La Mâamora CEN | |
| Orly Ouest and Sud airport | |
| Pathé picture Movie theater | |
| ST Louis Mall | |

Security sound system NF EN 61936

PUBLICS PLACES

| | |
|----------------------|-------------------------------|
| PARIS | Rolland Garros Stadium |
| | Air France Roissy Headquarter |
| | France Stadium |
| LYON | St Exupery Airport |
| MARSEILLE | Department Hall |
| | Pharo Cultural center |
| | Communal Headquarter |
| | Borely Hippodrome |
| DIJON | Congress Hall |
| | Auditorium |
| MONTPELLIER | Mediacenter |
| PAU | Zenith |
| POITIERS | Futuroscope |
| BORDEAUX | Merignac Airport |
| GRENOBLE | Palais des sports |
| BASTIA | Department Hall |
| TOULON | Congress Hall |
| TOULOUSE | Zenith |
| ST MARTIN (Antilles) | Airport |

High Security Sound



LIEGE - International Airport



SWEDEN - Turning Torso Building



DUBAÏ - Jumeirah beach hotel

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