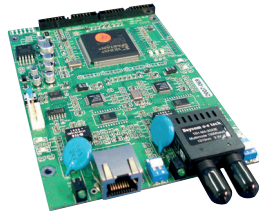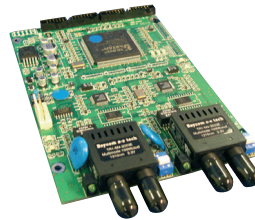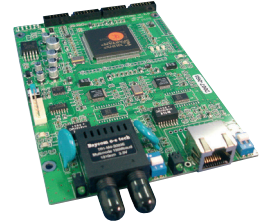IDA NET-L1   IDA NET-L2   IDA NET-L3   IDA NET-L4

DESCRIPTION

The IDA8 series is made for medium to large-sized installations, such as shopping malls, retail stores, train stations, airports, etc. The IDA8 has an open design architecture and interfaces with remote devices such as paging consoles, audio break-in and break-out convertors and room-controllers.

ATEÏS has developed its own audio networking system "ATEÏS-Net". The systems architecture is based on two redundant methods. A so called Local Network and a so called Global Network.

The LOCAL Network daisy-chains up to 32 IDA8's, creating a true audio matrix of 256 x 256 over a full redundant network (RJ45 or Fiber).

The GLOBAL Network interfaces between 32 local networks over a GIGA-bit open network. The GLOBAL Network's TCP/IP connection can also be used to interface up to 32 IDA8C's for instances where only TCP/IP is available. The size of such a system can reach up to a multiple of 1056 x 1056 inputs and outputs.

For interfacing within the LOCAL Network ATEÏS has developed a dedicated audio and data hardware application, ATEÏS-Net, with proprietary low-latency protocol.

ATEÏS-Net cards are available for copper (RJ45) and fiberoptic, creating dedicated network distances of up to 12.43 miles in a LOCAL Network. Further interfacing using TCP/IP for third party interfacing with PC based remote controller, Terracom IP-media streamers and TCP/IP paging and operating consoles. Serial RS485 and RS232 connections supporting Modbus, Vox@Net and thirdparty protocols are available on the units.

This Ethernet based network is able to simultaneously transport 64 audio channels (32 bits, 48 kHz sampling rate) with a latency < 1 msec together with the necessary control data over a CAT5 or Fiber-optic dedicated network.

Thanks to its loop architecture, the ATEÏS-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 IDA8's can be connected together onto the same LOCAL network. As the Network addresses are auto-negotiated, the network set up is very easy. Once programmed the system will be able to work independently (off-line) without the PC.

IDA NET-L1

ATEIS Net Secured Audio Network // EN54-16 // 2xRJ45 (portA and B) Card // 48 audio channels, 32bit, 48kHz, netcard //<100m // CAT5 .
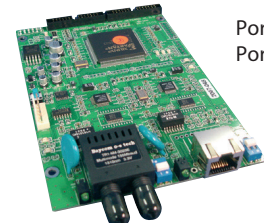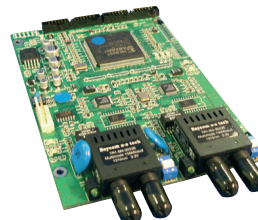
IDA NET-L2

ATEIS Net Secured Audio Network // EN54-16 // 1x STFiber (portA) + 1x RJ45 connectors (portB) // Multi-mode, 48 audio channels, 32bit, 48kHz, netcard // 100m<2km // (1300nm-50/125µm or 62.5/125µm-ST]connectors).

IDA NET-L3

ATEIS Net Secured Audio Network // EN54-16 // 1x STFiber (portA) + 1x STFiber (portB) // Multi-mode, 48 audio channels, 32bit, 48kHz, netcard //2km // (1300nm-50/125µm or 62.5/125µm-ST connectors).

IDA NET-L4

ATEIS Net Secured Audio Network // EN54-16 // 1x RJ45 (portA) + 1x STFiber connectors (portB) // Multi-mode, 48 audio channels, 32bit, 48kHz, netcard //100m<2km // (1300nm-50/125µm or 62.5/125µm-ST connectors).
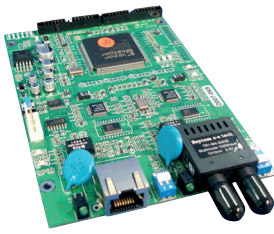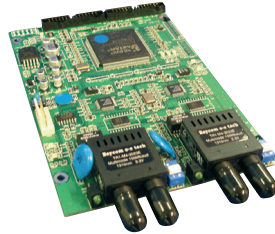
Port A = IN,
Port B = OUT

IDA NET-L2S
## IDA NET-L3S
IDA NET-L4S
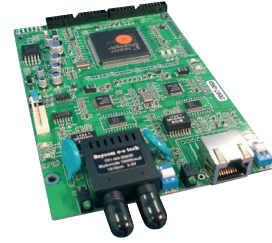
IDA NET-L2S
ATEIS Net Secured Audio Network // EN54-16 // 1x STFiber (portA) + 1x RJ45 connectors (portB) // FC type, 48 audio channels, 32bit, 48kHz, netcard //100m<10km // (1300nm-50/125µm or 62.5/125µm-ST connectors).

IDA NET-L3S
ATEIS Net Secured Audio Network // EN54-16 // 1x STFiber (portA) + 1x STFiber (portB) // FC type, 48 audio channels, 32bit, 48kHz, netcard //10km // (1300nm-50/125µm or 62.5/125µm-ST connectors).

IDA NET-L4S
ATEIS Net Secured Audio Network // EN54-16 // 1x RJ45 (portA) + 1x STFiber connectors (portB) // FC type, 48 audio channels, 32bit, 48kHz, netcard //100m<10km // (1300nm-50/125µm or 62.5/125µm-ST connectors).
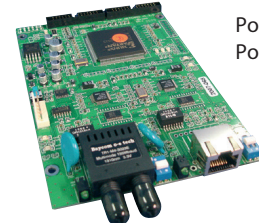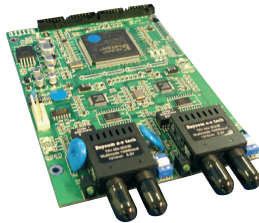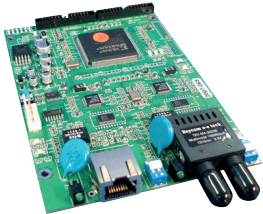
Port A = IN,
Port B = OUT

■ ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

Supervised Paging/Messaging system control and slave units shall be equipped with dual-port network cards that allow the audio system components to communicate over a closed loop network via TWP copper or fiber-optic circuits. The communications shallbe via Ateis-Net and not require the addition of 3rd party TCP/IP switches, routers, hubs, or other network devices. The network communications path shall allow for 64 digital audio communications channels with a latency of <1msec between any two units regardless of the number of DSP units in the system. Each network card shall contain two communications ports configured in dual copper with 2ea RJ-45 connectors, dual fiber with either 2ea ST (Multi-Mode) or FC (Single-Mode) fiber connectors for in-bound and out-bound network transmissions. Network cards shall also be available in a hybrid configuration with RJ-45 connector on one port and either ST or FC fiber on the other network port. Ateis-Net communications shall be in a closed-loop topology and isolate any single segment that is broken or shorted without compromising the operations of the system while simultaneously alerting the controller of a fault in the network connections. These dual-port network cards can be installed to be used as direct connections when installed in the "Local Network" slot of the audio system controllers or as either a direct connection for back-up/redundancy network or TCP/IP operation to stream audio and controls from one networked system to another or to network several controllers via any LAN/WAN network. The dual port network cards shall allow for communications over copper to a maximum distance of 100m between any two DSP control/slave units, 1.2miles over multi-mode fiber and over 12 miles on single-mode fiber network runs. The dual copper network card shall be Penton Audio model # IDA NET-L1. The dual ST Multi-Mode fiber network card shall be Penton Audio # IDA NET-L3. The dual single-mode fiber network card shall be Penton Audio # IDA NET-LS3. The dual port hybrid network cards with a single copper and single multi-mode fiber connection shall be the Penton Audio # IDA NET-L2 or L4 depending on inbound/outbound configuration. The dual port hybrid network cards with a single copper and single single-mode fiber connection shall be the Penton # IDA NET-L2S or L4S depending on inbound and outbound configuration. Unit shall be EN-54-16, ISO 7240-16 and BS5839/8 Compliant. Warranty shall be for a period of no less than 5 years. CE Compliant.