

# ATEIS®



# NET-CX

## ATEIS NET SECURED AUDIO NETWORK CARD



### MAIN CHARACTERISTICS

- ATEIS Net™ audio and data secured network
- Local-net & Global-net
- 32 x 32 IDA8 system units in a Global network
- Low-latency <1ms
- 48-audio channels
- Redundant loop architecture
- 32bit, 48kHz sampling
- CAT-5 for up to 100m
- Fiber-optic multi-mode for up to 2km
- Fiber-optic single-mode for up to 20km
- Dedicated network
- EN54-16 certified

ATEIS Net™ is a secured (monitored) audio network, developed and supplied for fast and low latency audio and data transport over a redundant copper (CAT-5) or fiber-optic network ring.

ATEIS Net™ secured audio network 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.

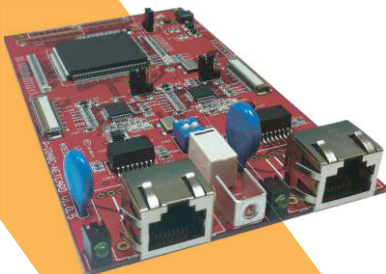
ATEIS Net™ is able to simultaneously transport 48 audio channels (32bit, 48kHz sampling rate) with a latency <1ms together with the necessary control data over a CAT-5 or fiber-optic dedicated network. For LOCAL and GLOBAL system networking, optional ATEIS Net™ networking cards can be installed into the IDA8 Controller and Slave units. Thanks to its loop architecture, the ATEIS Net™ audio network is fully redundant. When a fault (line open or shorted) occurs on a loop segment, it will be automatically isolated without affecting the entire system functionality. ATEIS global-net, can be a network of more than one controller (Matrix Mode and Switch Mode) and a maximum up to 31 IDA8Sxx Slave units (Matrix Mode and Switch Mode) in a local system.

As network addresses are auto negotiated, network setup is very easy. Once programmed, the system will operate independently without a PC having to be connected. 32 IDA8 system units can be a network in ATEIS Global-Net, and each system includes one control unit connecting to 31 slave units in ATEIS Local-Net.

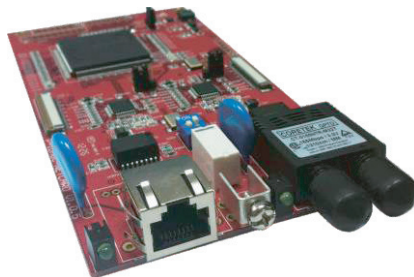
NET-C1 cards (RJ45 to RJ45) are suitable for a maximum distance up to 100m between Matrix and Slave unit or Slave and Slave unit. For longer installation distances, optional NETC2, C3 or C4 can be used to extend distances with fiber-optic, up to 2km between units in multimode or 20km in single-mode.



NET-C4, 1 x fiber Port B & 1 x RJ45 Port A



NET-C1, 2x RJ45 Port A & Port B



NET-C2, 1x RJ45 Port B & 1x fiber Port A



NET-C3, 2x fiber Port A & Port B

Note:  
Port A = network IN  
Port B = network OUT

BY





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## ATEIS NET SECURED AUDIO NETWORK CARD

### CERTIFICATIONS AND APPROVALS

#### Region Certifications

Europe	Voice Alarm	EN54-16 certified 2012 CE - 0359 according to EN50130 - 4
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### TECHNICAL SPECIFICATIONS

#### Electrical

##### Battery power supply

Voltage	Internal multi-power socket
Power consumption	5W

#### Performance

Frequency response	20Hz - 22kHz
Sampling rate	32bit / 48kHz
Latency	<0.8ms per node
Integrity assurance	Watchdog

#### Center Wavelength (Fiber-optic)

Multi-mode	1300nm
Single-mode	1300nm

**FO connector type** Straight Tip

**FO cable baud rate** 62.5um (Multi-mode)  
9um (Single-mode)

#### Indicators

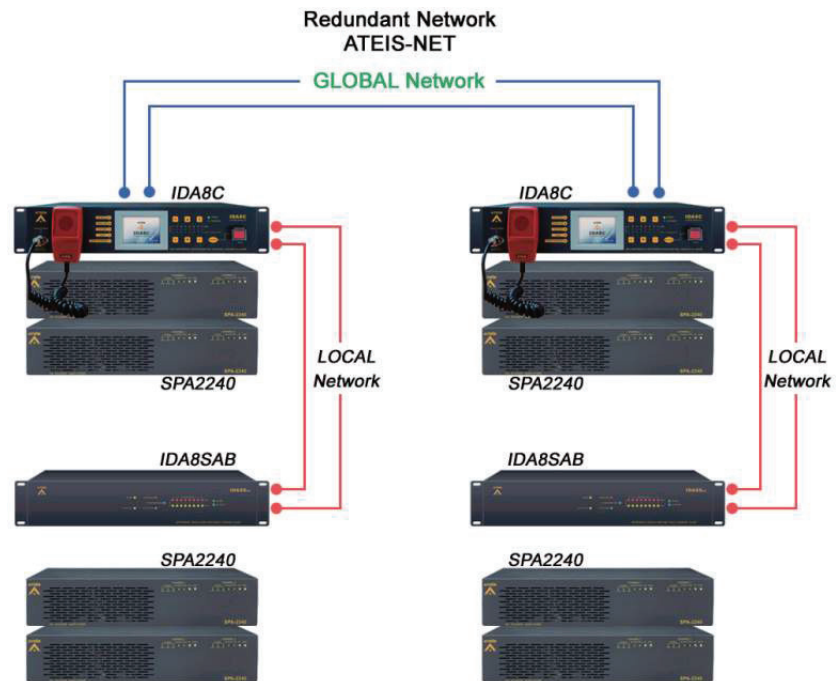
LED	Network active
LED	Network present

#### Mechanical

(H x W x D) 18 x 100 x 150mm  
(7/10" x 4" x 6")

### SECURITY

In accordance with EN54-16, UL60065, ISO 7240-16 and BS5839/8, all IDA8 system components and peripherals on the ATEIS Net™ secured audio network are monitored and reports stored in the IDA8C system controller. The controller monitors the status of all the equipment in the system, reports status changes and stores fault messages for recall either on the controller front-panel display or through the ATEIS Studio PC-based software.



#### 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 1100hPa

### PARTS INCLUDED

Quantities	Components
1	ATEIS Net™ secured audio network card
1	Set of interconnecting ribbon cables
1	Set of mounting pillars

### CONTROLS AND INDICATORS

#### Front

- Data running indicator
- Net-work present indicator

### INTERCONNECTIONS

#### Front

- Two system network connections. Either CAT5 or Fibre Optic or a combination

Manufacturer reserves the right to alter specifications without notice

#### Penton UK Ltd.

Unit 2, Teville Industrials, Dominion Way, Worthing, West Sussex, BN14 8NW, UK

+44 (0)1903 215315 • sales@pentonuk.co.uk • www.pentonuk.co.uk

[www.pentonuk.co.uk](http://www.pentonuk.co.uk)



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