General
Size 120 mm x 160 mm x 40 mm (mini-YGDAI format)
Power Consumption <4 Watts
Power Supply +5 V, +3.3V, GND (from mini-YGDAI slot)
Storage: Temp/Humidity (non-condensing) -5°C to 70°C / Max 95%
Operating: Temp/Humidity (non-condensing) 5°C to 40°C / 5% to 80%
Connectors 1 mini-YGDAI mini backplane connector, 2 Neutrik® EtherCon® RJ45-XLR female connectors (EtherSound™ from/to link), 1 Sub-D9 (RS232) serial interface, 1 RJ45 third port.

Audio I/O
 Outputs 16 channels extracted from any of the 64 EtherSound™ downstream channels or from any of the 64 EtherSound™ upstream channels in bidirectional mode @ 44.1 kHz or 48 kHz (8 channels extracted on
 Inputs 16 channels inserted from any of the 64 EtherSound™ downstream channels or from any of 64 EtherSound™ upstream channels in bidirectional mode @ 44.1 kHz or 48 kHz

Audio Format 24 bit
Sync 44.1 kHz to 48 kHz ± 5% from EtherSound (can be

Synchronization
External clock synchronisation

Other I/O
RS232 serial interface 9-pin D-Sub
MIDI interface Internal port in mini-YGDAI interface

Development and Integration Environment
OS Supported Windows Vista and XP
ES-Monitor ES-Monitor enables to remotely set, control and monitor an EtherSound™ network and to manage the AVY16-ES100 parameters.
Development Tools A high-level AuviTran Application Programming Interface, IP based, can be provided to the third-party developer to provide direct access to the internal parameters via a PC program, subject to certain terms and conditions.

Compatibility list

Part numbers
AVY16-ES100 - EtherSound™ mini-YGDAI Card with 16 inputs and 16 outputs

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Printed in France
Applications

- Live entertainment and concerts
- Stadiums, opera, theatre, museum and arts centres
- Theme parks and resorts
- Television and radio outside broadcast
- PA announcements and conference centres
- Recording and broadcast studio
- Cruise ship paging, onboard entertainment and leisure centre audio systems
- Shopping malls and arcades - zone mixing

Key Features

- 128 channels, 24 bit, 48 khz or 44.1 khz audio transmission over Ethernet.
- 16 YGDAI output channels can be dynamically "extracted" from any of the 64 EtherSound™ downstream channels or from any of the 64 upstream channels when the bidirectional mode is active.
- 16 YGDAI input channels can be dynamically "inserted" to any of the 64 EtherSound™ downstream channels or to any of the 64 upstream channels when the bidirectional mode is active.
- AutoTrian’s ESMonitor, a Windows Vista/XP application running on a remote PC connected to the EtherSound™ network, allows automatic discovery of AVY16-ES100 cards; monitors connection & disconnection status for all cards; controls the individual cards’ parameters; and allows local assignment of any YGDAI input or output to the required EtherSound™ channel.
- 2 x ES100 IN/OUT ports allow the daisy-chaining of multiple AVY16-ES100 cards or other third-party EtherSound™ devices.
- A Third Port allows connecting the AVY16-ES100 to a PC with a software as ESMonitor for direct control of the AVY16-ES100 and of a ES100 network when the IN port is already used (Rings or non Primary Master device).
- R532 serial port allows 3rd-party data connection through the EtherSound™ network using virtual data tunnelling or data exchange from/to a remote PC.
- Internal MIDI port located in the mini-YGDAI card enables remote control of the Yamaha device via a third-party PC application.

Basic EtherSound™ system

- room, while the stage inputs are managed at a PC located close by.
- Analog audio feeds converge at the control room and are processed by the Yamaha digital mixer returned to the AVY16-ES100 card’s output to be fed on to Ether-Sound™ output.
- Analog audio feeds converge at the control room and are processed by the Yamaha digital mixer returned to the AVY16-ES100 card’s output.
- User can also monitor and access recording and broadcast positions for monitoring purposes.
- Yamaha digital mixing consoles located at the stage, front of house, recording room and outside broadcast location are each fitted with four AVY16-ES100 cards to receive the stage audio. The FOH mixer performs mixing, equalising and delay processing for the FOH speakers, via EtherSound™ compliant speaker processors and/or amplifiers. A similar arrangement is provided at the stage mix position, with stage monitoring being handled by EtherSound™ compliant speaker processors and/or amplifiers.

Medium-sized theatres and churches

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Theatres and auditoriums with centralised digital mixer and remote monitoring

- An EtherSound™ system can be employed to provide overall control of the Yamaha digital mixer at the control room. The mixer is fitted with four AVY16-ES100 cards which receive the 64 channels, 16 per card, by daisy chaining the CAT5 cable between each card.
- Up to 64 channels of mixed audio can then be sent over EtherSound™, through the output of the final AVY16-ES100 card, to an Ethernet switch which then distributes the audio to individually and remotely located Yamaha DM840S, again each fitted with an EtherSound™ card.

- The DM840S can provide local equalisation and delay feeding the audio on to the speaker processor and/or amplifiers - this could be analog/digital or, if the processor and/or amplifier are also EtherSound™ compliant, an EtherSound™ compatible speaker processor and/or amplifiers.
- The stage input cards, digital mixing console, remote DM840S and EtherSound™ compliant speaker processors and amplifiers can be controlled and monitored using a PC in the control room.