



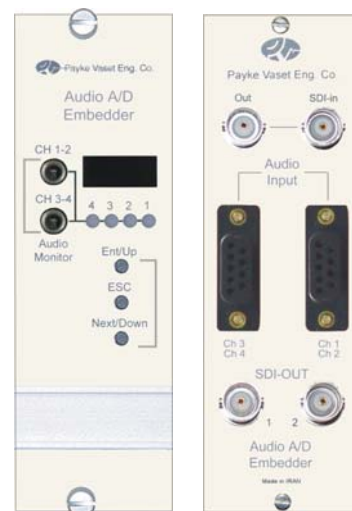
Audio A/D & SDI Embedder

The module provides features for converting four analog audio channels to two digital AES3 format, and then embedding inside a serial digital video according to BT1305 standard. After equalization and re-clocking of the SDI input, extract audio timing via PLL, synchronized the digital audio input with the SDI input via scan rate converter. The A/D converter provides the high quality digital audio complying AES3 standard.

The selected audio channel embedded inside the SDI input as audio group, and then guided to SDI outputs. Selecting audio channels/group, listen-in stereo jacks, keys and audio status indicators handled via front panel. BNC connectors for SDI input, active loop-through, Embedded SDI outputs, and 9-pin D connectors for analog and digital audio inputs are located in the rear panel.

Features

- Analog/Digital Audio Input Selectable
- Four High Quality Audio A/D Converter (AES3)
- Digital Audio Inputs with Scan Rate Converter
- Selectable Embedded Audio Groups
- Front Panel Control with Alphanumeric Display
- Audio Listen-in Via Stereo Jack on Front Panel
- Cascaded Up to 4 Embedder (16 Audio Channel)
- Black-bar Generation when Loss of SDI Input
- Installable in 3RU Digital Studio Subrack



Specifications

Analog Audio Inputs	
No of inputs	4 channel
Impedance	600/10 KΩ , balanced
Max Level	+20 dbu
Input connector	9 Pin, D-sub
A/D Performance	
Standard	BS647, AES3
Sampling frequency	48 KHz
Resolution	24 bits
Frequency response	±0.05 db, (20 ~ 20 KHz)
THD + N	-90 db@+20dbu
Crosstalk Channel	-90 db,
General	
Power	±5 VDC , 800 mA
Operating humidity	10 to 85%
Operating temperature	0 to +35°C
Dimensions	234 * 125 * 40

Digital Audio Input	
No of inputs	2×AES3 (1 group)
Impedance	110 Ω, balanced
Min level	200 mV
Format	AES/EBU , BS-647
Connector	9 Pin, D-Sub
SDI Input and Output	
Standard	Frame: BT656-3, Embed: BT1305
Input	75Ω, BNC, active loop-through
Input Equalization	Automatic 40 dB @ 270 MHz
Return loss	> 18 dB @ 270 MHz
Embedded Output	(2×BNC), 75 Ω, 0.8V±10%

