

Viper II 6080

8-channel Audio Multiplexer Modules for the Viper II



Portable Fiber Optic Broadcast Production Systems.

The Viper II 6080 fiber optic audio transmitter and receiver module set from Grass Valley, a Belden Brand, efficiently multiplexes and transmits eight channels of analog audio on one fiber, with a signal to noise level greater than 100 dB. The module set supports line level audio input and output, and provides more than 20 kHz of audio frequency response with extremely low distortion.

Eight line level audio inputs are digitized by the Tx6080, using 24-bit sampling, digitally multiplexed and transmitted via Telecast's advanced laser technology. The Rx6080 faithfully reconverts these signals into the original analog audio channels.

Durable and flexible

The module set is available as standalone throwdown modules (MTx6080 and MRx6080), or as rack mount (Tx6080 and Rx6080) modules to fit our Viper II 16-slot frame.



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KEY FEATURES

- Rack modules or standalone
- Broadcast quality audio
- S/N ratio >100 dB
- 24 dBm maximum audio level
- 20 Hz to 20 kHz at full level
- Digitally transmitted, 24 bit
- AC coupled I/O
- Up to 30 dB optical link budget
- Durable construction
- Easy rack mount module conversion
- Battery backup option in Viper II frame
- Wide temperature range
- Low power consumption
- High reliability design
- WDM/CWDM multiplexing optional
- TelePort 3G & TeleThon 3G compatible

SPECIFICATIONS

Audio

Transmission method: Digital, TDM

Digital sampling: 48 kS/s at 24-bits

Input impedance: 10 k Ω

Output impedance: <100 Ω

Freq. response, at 24 dBm: \pm 0.2 dB, 20 Hz to 20 kHz

Signal to noise ratio: >100 dB

Total harmonic distortion:

<0.02%, 20 Hz to 10 kHz

<0.1%, 10 kHz to 22 kHz

Intermod distortion (60 Hz + 3 kHz mixed 4:1): <0.04%

Electro-Optical

Operating wavelength: Standard 1300 nm

Transmitter output power: Standard -10 dBm

Receiver sensitivity range: -4 to -30 dBm

Optical source/ detector type: Laser diode/PIN

Fiber compatibility: Single-mode or multimode

Mechanical/Environmental

Dimensions (W x H x D):

85.09 x 194.31 x 23.88 mm (3.35 x 7.65 x 0.94 in.)

Weight (per standalone module):

0.28 kg (10 oz.)

Audio connectors: DB25 female

Optical connector: ST type

Power req. (typ., per module): 3W at 10 to 18 VDC

Temperature range: -25° to 55° C (-13° to 131° F)

Humidity range: 0 to 95% RH, non-condensing

ORDERING

(M)Tx6080-A 1300 nm laser output

(M)Rx6080 -4 to -30 dBm receiver

ADAP-AC-01LC Viper II "Wall-wart" AC adapter for standalone "throwdown" modules

Note: The "M" in front of part number denotes "throwdown"



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