

Data Sheet

JET67 Audio Engine



Multi-Format AoIP Router / Console Engine

Designed for maximum flexibility in Radio console operation at an affordable price, the JET67 interfaces to AES67, RAVENNA, and Livewire networks as well as Logitek's JetNet protocol. Dante® networking is also available as an option.

JET67's internal mixer supports up to a 24 fader console, providing EQ and dynamics at each fader along with Program and 3 Aux buses at each fader. Up to 24 mix-minus buses are available, depending on the attendant console. Four microphone inputs with phantom power are also provided.

A powerful solution in only one rack unit, Jet67's fan-less enclosure incorporates quick-connect terminal blocks for audio I/O - no soldering or punch-downs are required. GPIO is provided on a DB-15 connector and includes 4 inputs and 8 outputs. Four Ethernet connections provide network interfacing and router setup access.

Router setup and source labeling are achieved via an easy-to-use Web interface.

A combination of JET67 and Logitek's new mixIT Radio console bring full broadcast functionality, complete with touchscreen control of router functions, scene selects and other operational features, to Radio stations with limited equipment budgets. JET67 also works with Logitek's Helix hardware surfaces and Helix Studio virtual surface.

VERSATILE NETWORK INTERFACE

- AES67
- RAVENNA
- Livewire™
- Logitek JetNet
- Dante® (optional)
- (2) 1 GB Ethernet connectors
- (2) 10/100 Ethernet connectors

AUDIO I/O

- Connections are made via pluggable terminal blocks
- 4 Microphone inputs with phantom power
- 6 stereo analog inputs; configurable for mono
- 2 digital inputs
- 8 stereo analog outputs; configurable for mono
- 2 digital outputs
- Directly connect two units for expanded I/O

POWERFUL DSP IN A SMALL PACKAGE

- Onboard mixer supports up to a 24 fader console
- EQ and dynamics at every fader
- Up to 24 mix-minus buses
- Program and 3 Aux buses

REDUNDANT POWER

- 90-264 VAC (47-63 Hz), 20 watt internal power supply
- Connection for external 12 VDC redundant power supply



Networked Console Systems

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Specifications

JET67 Audio Engine

Specifications are subject to change without notice

DIMENSIONS, WEIGHT AND POWER

- 19" x 1.75" x 7" (1 RU) (48.3 x 4.4 x 17.8 cm)
- Weight: 3Lbs. (1.36 kg)
- Internal Power: 95-240 VAC, 20 Watts
- Backup power: Connection for +12 VDC external PSU

AUDIO PROCESSOR

- DSP: 32-bit floating point processing
- Mixing: 24 stereo channels
- EQ & Dynamics: available on each fader
- Mix-Minus outputs: 24 channels mono, may be combined for stereo
- Reference Level: -20 dBFS
- Internal sampling rate: User selectable 44.1K, or 48K
- External sync: PTPv2 via network or AES3 via Digital Input 1
- Surface connection: 1 RJ-45 provides power, cue and data, requires 24-Awg cable
- System Configuration: via embedded web server

GPI/O

- Connector: DB-15
- Inputs: 4 channels
- Input level: +3.3 VDC pull-up, ground to activate, reverse voltage and over voltage protected
- Outputs: 8 channels
- Output format: optical isolated relay, non-polarized, 48 VDC, 500 mA max load

MICROPHONE INPUT

- Number of Channels: 4 microphones
- Connectors: 5-pin pluggable screw terminals
- Phantom power: +48 V switched via software
- Normal input level: -60 to -30 dBu, software adjustable
- Input impedance: 1k ohms balanced
- Common mode rejection ratio: -90 dB @ 1 kHz
- THD+N: .028% @ -50 dBu
- Frequency response: (20 Hz to 20 kHz) +/- .2 dB
- EIN: 106 dB
- Conversion resolution: 24 bits

ANALOG INPUT

- Number of Channels: 12 mono inputs, may be combined for stereo
- Connectors: 5-pin pluggable screw terminals
- Signal format: Balanced or unbalanced
- Maximum input level: +24 dBu
- Normal input level: -20 to +8 dBu, software adjustable
- Input impedance: 50k ohms balanced or 25k ohms unbalanced; bridging
- Common mode rejection ratio: -90 dB @ 1 kHz
- THD+N: .007% @ +4 dBu
- Frequency response: (20 Hz to 20 kHz) +/- .1 dB
- Conversion resolution: 24 bits

ANALOG OUTPUT

- Number of Channels: 16 mono outputs, may be combined for stereo
- Connector: 5-pin pluggable screw terminals
- Signal format: Balanced or unbalanced
- Maximum output level: +24 dBu into 600 Ohms
- Normal output level: -20 to +8 dBu, software adjustable
- Output impedance: 40 Ohms
- THD+N: .006% @ +4 dBu
- Frequency response: (20 Hz to 20 kHz) +/- .1 dB
- Conversion resolution: 24 bits

DIGITAL INPUT

- Number of channels: 2 stereo inputs
- Connector: 5-pin pluggable screw terminals
- Digital format: AES/EBU or S/PDIF
- Rate conversion: 24 bit resolution
- Input sample rate: 24kHz to 96kHz
- Input impedance: 110 Ohms, transformer isolated
- Frequency response: (20 Hz to 20 kHz) +/- .1 dB
- THD+N: .0006% @ -20 dBFS
- Subcode detection: (validity, audio/not audio)

DIGITAL OUTPUT

- Number of channels: 2 stereo outputs
- Connector: 5-pin pluggable screw terminals
- Format: AES/EBU
- Sample rate: system sample rate
- Precision: 24 bits
- Output impedance: 110 ohms, transformer isolated
- Frequency response: (20 Hz to 20 kHz) +/- .1 dB
- THD+N: .0002% @ -20 dBFS

NETWORK

- Ethernet: 2 wired Gigabit ports, 2 wired 10/100 ports
- Simultaneous audio streams: 64
- System size: 600 streams total
- Packet Latency: 0.25, 1.0 or 4.0 mSec, software settable
- Fault tolerance: dual redundant networks
- Streaming protocols: AES67, RAVENNA, Livewire, JetNet, optional Dante
- Network sync: PTPv2, Livewire