



Welcome to the next generation.

Logitek is pleased to introduce the JetStream Mini IP-based audio router. This product provides audio I/O, mixing, processing and other functions and may be operated via any Logitek control surface.

JetStream products represent the next generation of IP-based audio routing systems, providing ultra-fast audio streaming for on-air and production operations. Unlike the older versions of IP audio systems, JetStream products are designed to take advantage of new network protocols that make the system extremely easy to set up, administer and use. Only the names of the channels need to be entered. The JetStream will acquire all necessary addresses, advertise its shared channels and make a list of sources offered by other JetStream units on your network. You don't need a degree in computer science or even patience and coffee to set it up. With low power consumption, fanless convection cooling and high I/O density at an affordable price, the JetStream is ideal for radio studios, TV production trucks and other applications.

JetStream MINI Features

The JetStream MINI provides enough capacity for one 24 channel audio console, with these features:

- 2RU enclosure
- Fanless convection cooling
- 8 I/O card slots with 5 types of I/O cards using StudioHub+® type RJ-45 connectors
 - 4 Mic preamps with phantom power and trim pot gain adjust
 - 4 Stereo line inputs with trim pot gain controls
 - 4 Stereo line outputs with trim pot gain controls
 - 4 Stereo AES or S/PDIF digital inputs with rate conversion
 - 4 Stereo AES or S/PDIF digital outputs
- Audio confidence indicators
- 12 GPI inputs and 16 GPI outputs on 4 DB-15 connectors
- 4 RS-485 ports with AES cue audio
- 2 GbE Ethernet ports
- 24 stereo channels of mixing divided into 1 to 4 surfaces
- Profanity delay, input metering, mic processing
- 64 network audio channels with failover between ports
- Network connection to hard-disk playout systems
- 2 VOIP phones or internet codecs
- VLAN tagging, DHCP, DNS, MADCAP, SNMP, AutoIP, mDNS, DIFFSERV, SIP, SDP
- Redundant power supplies
- 5 second boot to local audio, 30 second boot to network audio

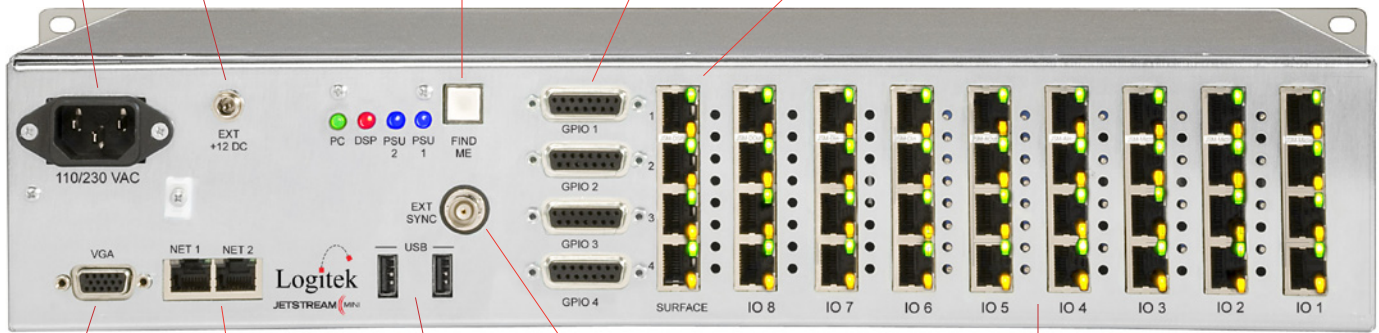
Universal power input, up to 25 Watts

Connect a backup power supply here if desired

Press this button to override automatic features for detection (useful for setting up complex systems or if you need to move the unit to another room)

12 GPI and 16 GPO contacts

Connect control surfaces here



A video monitor connects here for operating vScreen (meters & more)

Dual Gb ethernet ports

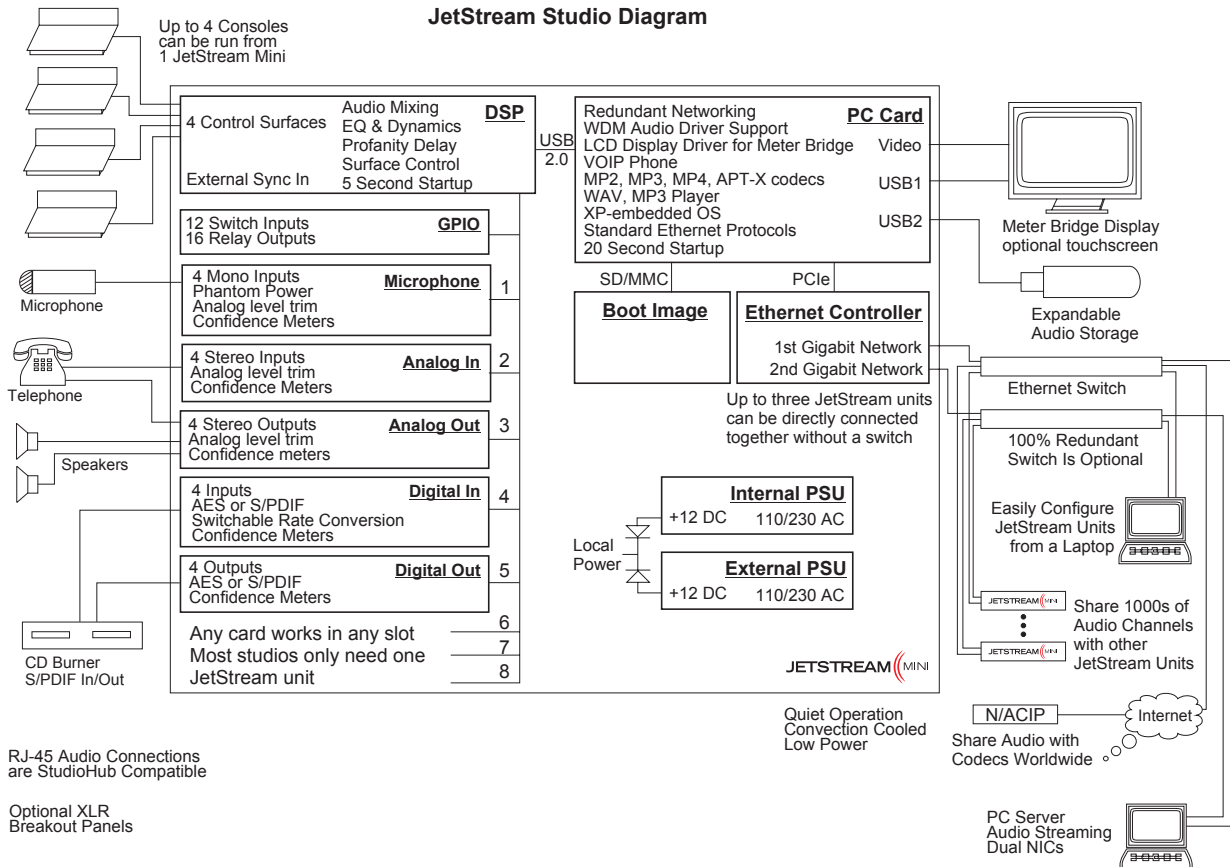
USB ports for memory sticks, pointing devices or other data

Connect your house sync to one unit - the entire JetStream network will follow

Five types of I/O cards are available for configuring your JetStream:

- Analog input (4 stereo)
- Analog output (4 stereo)
- Digital input (4 AES or S/PDIF)
- Digital output (4 AES or S/PDIF)
- Microphone input (4 mics, 48V phantom power)

JetStream Studio Diagram



SPECIFICATIONS

General

| | |
|------------------|--|
| Card slots: | 1 Audio processor, 1 Network processor, 1 GPIO, 8 Audio I/O |
| Local audio I/O: | 64 channels max (mono) on 8 I/O cards Any card type can be used in any slot |
| Power: | 95 - 120 volt or 220-240 volt universal input (25 watts maximum) |
| Backup power: | Connection for external backup PSU |
| Start up time: | 5 sec to local audio, 30 sec to networked audio |
| Dimensions: | Actual - 19" w x 11.5" d x 3.5" h (2RU) (48.2 cm w x 29.2 cm d x 8.9 cm h) |
| Weight : | fully loaded - 10 lbs. |

Audio Processor Card

| | |
|-------------------------|---|
| DSP: | 32 bit floating point processing |
| Mixing: | 24 channels (stereo) shared between 1 to 4 consoles |
| EQ & Dynamics: | 24 channels allocated to either inputs or outputs |
| Profanity delay: | 30 sec stereo (60 sec mono) shared between consoles |
| Mix-Minus outputs: | 24 channels mono, may be combined for stereo |
| Reference Level: | -20 or -18 dBfs |
| Internal sampling rate: | User selectable 32K, 44.1K, or 48K |
| External sync: | 1 Hz to 48 kHz, word clock or GPS time pulse |
| Console connections: | 4 serial ports with activity indicators |

GPIO Card

| | |
|-----------------|---|
| Inputs: | 12 channels |
| Input level: | +3.3 volts, ground to activate, reverse voltage and over voltage protected |
| Outputs: | 16 channels |
| Outputs format: | optical isolated relay, non-polarized (50 volt, 500 milliamp max load) Functionality assigned in setup program |

Microphone Input Card

| | |
|------------------------------|---|
| Number of Channels: | 4 microphones |
| Connectors: | 4 StudioHub+* format RJ-45 sockets with audio presence & phantom power indicators |
| Phantom power: | +48 volts switched via software |
| Normal input level: | -60 to -40 dBu, rear panel trim-pot adjustable |
| Input impedance: | 1k ohms balanced |
| Common mode rejection ratio: | -90 dB @ 1 kHz |
| THD+N: | .036% @ 0 dBu |
| Frequency response: | (20 Hz to 20 kHz) +/- .2 dB |
| Dynamic range: | 105 dB |
| Conversion resolution: | 24 bits |

Analog Input Card

| | |
|------------------------------|---|
| Number of Channels: | 8 mono inputs, may be combined for stereo |
| Connectors: | 4 StudioHub format RJ-45 sockets with audio presence indicators |
| Signal format: | Balanced or unbalanced |
| Maximum input level: | +24 dBu |
| Normal input level: | -20 to +8 dBu, rear panel trim-pot adjustable |
| Input impedance: | 50k ohms balanced or 25k ohms unbalanced; bridging |
| Common mode rejection ratio: | -90 dB @ 1 kHz |
| THD+N: | .008% @ 0 dBu |
| Frequency response: | (20 Hz to 20 kHz) +/- .2 dB |
| Dynamic range: | 105 dB |
| Conversion resolution: | 24 bits |

Analog Output Card

| | |
|------------------------|--|
| Number of Channels: | 8 mono outputs, may be combined for stereo |
| Connector: | 4 StudioHub+ format RJ-45 sockets with audio presence indicators |
| Signal format: | Balanced or unbalanced |
| Maximum output level: | +24 dBu into 600 Ohms |
| Normal output level: | -20 to +8 dBu, rear panel trim-pot adjustable |
| Output impedance: | 60 Ohms |
| THD+N: | .008% @ 0 dBu |
| Frequency response: | (20 Hz to 20 kHz) +/- .2 dB |
| Dynamic range: | 105 dB |
| Conversion resolution: | 24 bits |

Digital Input Card

| | |
|---------------------|--|
| Number of channels: | 4 stereo inputs (may be split into 8 mono) |
| Connector: | 4 StudioHub+ format RJ-45 sockets with audio presence indicators |
| Digital format: | AES/EBU or S/PDIF |
| Rate conversion: | All inputs, 24 bit resolution, user switchable in or out |
| Input sample rate: | 24kHz to 96kHz |
| Precision: | up to 24 bits |
| Input impedance: | 110 Ohms, transformer isolated |
| Frequency response: | (20 Hz to 20 kHz) +/- .1 dB |
| THD+N @ -20 dBFS: | 24 bits .0002% |
| Dynamic range: | 140 dB |
| Subcode detection: | (validity, audio/no audio) |

SPECIFICATIONS cont.

Digital Output Card

| | |
|---------------------|--|
| Number of channels: | 4 stereo outputs (may be combined from 8 mono) |
| Connector | 4 StudioHub+ format RJ-45 sockets with audio presence indicators |
| Digital format: | AES/EBU or S/PDIF, user switchable |
| Sample rate: | system sample rate from audio processor card |
| Precision: | 24 bits |
| Output impedance: | 110 ohms, transformer isolated |
| Frequency response: | (20 Hz to 20 kHz) +/- .1 dB |
| THD+N @ -20 dBFS: | 24 bits .0002% |
| Dynamic range: | 140 dB |
| Subcode generation: | copyright not asserted when in SPDIF mode |

Network & Video Processor Card

| | |
|------------------------------|---|
| Embedded processor: | 1.6 GHz, 1 GB DDR2 |
| OS: | XP embedded |
| Video: | VGA, 1440 x 900 max resolution |
| Video application: | vScreen user configurable meter bridge replacement GUI |
| USB: | 4 ports for pointing devices or memory sticks |
| Ethernet: | 2 wired Gigabit ports |
| Simultaneous audio streams: | 64 per JetStream |
| System size: | 2000 streams total |
| Network delay: | 1 mSec max |
| Fault tolerance: | dual redundant networks when using two network switches |
| Snake Mode: | up to 3 JetStream units can be directly connected without a switch |
| Streaming protocols: | RTP, multicast and unicast |
| Control protocols: | IGMP, RTSP, SIP, SDP |
| Managed network protocols: | VLAN tagging, DHCP, DNS, MADCAP, DSCP, SNMP |
| Unmanaged network protocols: | AutolP (UPNP), mDNS |
| Optional codecs: | G.711, G.722, MPEG2, AAC, APTX (N/ACIP compliant), MP3 |
| Network sync: | user settable address & port, packet rate 1 Hz to 3 KHz Sync rate is independent of audio sample rate Network can be locked to house sync input via a single JetStream Automatic system master selection, automatic failover |

**** Specifications are subject to change ****

