

INTRAPLEX® MPX BRIDGE

Bidirectional analog/digital MPX converter

Introducing the Intraplex MPX Bridge, a versatile and powerful solution for seamless full duplex analog FM MPX to digital FM MPX conversion. Designed in a compact ½ RU form factor with an external power supply, the MPX Bridge is perfect for space-constrained installations or portable use while delivering high-end performance. It supports both digital MPX via AES3 and analog MPX, ensuring exceptional audio fidelity.



Intraplex® MPX Bridge Product Features

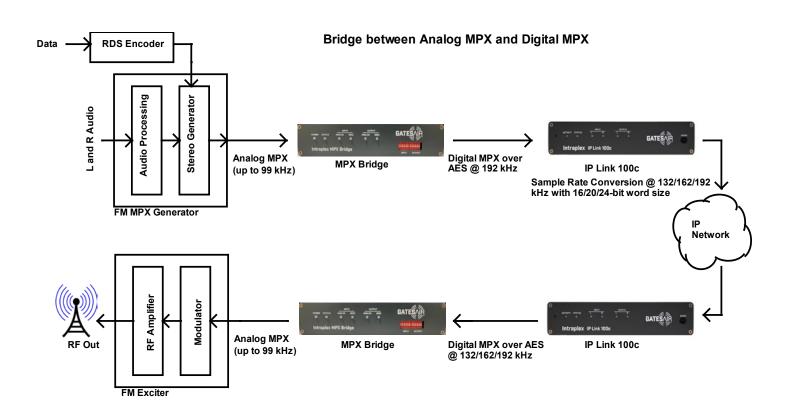
The MPX Bridge offers the same highperformance audio quality as the renowned
Intraplex IP Link MPXp, including a high
dynamic signal range and an ultra-flat
frequency response, which guarantees superior
FM stereo separation. With user-settable input
and output analog levels, dual AES3 outputs
for driving multiple external codecs, and
comprehensive MPX input/output signal level
monitoring, MPX Bridge is built for flexibility,
connectivity, and precision. SynchroCast
compatibility further enhances its utility in
synchronized broadcast applications.

- Full duplex analog FM MPX <-> digital FM MPX conversion
- ½ RU form factor with external power supply
- Digital MPX: AES3 at 192 ksps
- Analog MPX: 0 to 99 kHz
- 24-bit ADC and DAC sampling rate at 192 ksps
- Same high performance as Intraplex IP Link MPXp: High dynamic signal range, ultra flat frequency response for excellent FM stereo separation
- User settable input/output analog levels
- Dual AES3 outputs for driving multiple external CODECs
- MPX input/output signal level monitoring
- SynchroCast compatible
- Front panel contains:
 - LEDs
 - Tri-color LED for signal level monitoring
 - System monitoring for alarms and alerts
 - Switches for input/output signal level (0 to 16 dBu)
- Rear panel contains:
 - External universal power supply
 - BNC: Analog input/output
 - XLR: One AES3 input and two AES3 outputs
 - D-sub: Contacts for alarm and alert conditions

The Intraplex MPX Bridge is the ideal choice for broadcasters seeking a reliable, high-performance MPX conversion solution.



Use Case



Intraplex® MPX Bridge Specifications Specifications and designs are subject to change without notice

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Mechanical	
Chassis	1/2 RU
Power Supply	External universal AC/DC (12V)
Analog MPX	
MPX Analog In	One channel, 1 BNC connector
Analog Level In	 Variable input, 0 to 16 dBu in 1 dB steps User settable level using DIP switches
Sampling Rate In	192 ksps
MPX Analog Out	One channel, 1 BNC connecter
Analog Level Out	 Variable output, 0 to 16 dBu in 1 dB steps User settable level using DIP switches
Analog Performance	 24 bit ADC and DAC Total Distortion: (THD+N) less than 0.003% Dynamic Range: Greater than 90 dB Bandwidth: 0.1 Hz to 88 kHz, -1 dB 20 Hz to 53 kHz gain is +/- 0.05 dB 24-bit sampling at 192 ksps
Impedance	 Input impedance: Greater then 10 kOhm, jumper settable to 75 Ohms Output impedance: Less than 10 Ohms, jumper settable to 75 Ohms
Digital MPX	
AES3 Out	 Two channels on 2 XLR connectors AES3 sample rate fixed at 192 kHz Conversion of MPX analog to AES3
AES3 Sample Rate Timing	Internal timing +/-50 PPM
AES3 In	 1 XLR Accepts sample rates greater than 32 ksps Conversion of AES3 in to MPX analog out (Left channel only)
Other	
SynchroCast compatible	Yes
GPIO	9 pin Sub D connector
Contact Outputs	 Contact 1: Status Contact 2: AES3 input lock/sync Contact 3: Analog input low signal Contact 4: AES3 input low signal
Front Panel	
Analog/AES3 Input	 Tri-color, single LED, level monitoring 0 to -3 dB FS: Red -3 to -12 dB FS: Yellow -12 to -50 dB FS: Green -50 or less: Off
Analog/AES3 Output	 Tri-color, single LED, level monitoring 0 to -3 dB FS: Red -3 to -12 dB FS: Yellow -12 to -50 dB FS: Green -50 or less: Off
Status	Tri-color LED (Normal, Alert, Alarm)
Power	Green LED
Other	Two DIP switch banks: One for analog input level. One for analog output level.
Rear Panel	
Rear Panel	 Two BNC connectors for analog MPX Three XLR connectors for AES3 9 -pin Sub-D for GPIO One DC Power Input
Compliance	
Regulatory Compliance	CE, FCC Part 15 Class A, IEC 60950, RoHS