MPX OVER IP

Model DB9410-TX

Professional MPX over IP Encoder - MicroMPX

The DB9410-TX is a high-performance, MPX over IP Encoder tailored to meet the modern demands of broadcast audio transmission. At its core is the innovative MicroMPX (µMPX) algorithm developed by Thimeo, a purpose-built codec specifically designed for FM MPX transport. This technology ensures efficient use of network bandwidth, down to as little as 320 kbps while preserving excellent audio quality and maintaining full stereo and RDS integrity. The DB9410-TX enables robust, low-latency streaming over public or private IP networks, making it an ideal solution for both regional and nationwide broadcasting scenarios.

Despite its streamlined design, the DB9410-TX integrates effortlessly into existing setups. LED indicators on the front panel offer immediate insight into operational status, while configuration and monitoring are made simple through DEVA's intuitive HTML5-based web interface. This web control panel is accessible via any modern browser on PC, tablet, or smartphone, ensuring flexible management whether locally or from remote locations. The unit also supports HTTPS, FTP, NMS, and SNMP protocols for secure and comprehensive remote control.

As part of DEVA's growing portfolio of IP audio solutions, the DB9410-TX is engineered with precision and built using top-tier components, including high-grade ADCs for maximum signal fidelity. It supports both Analog MPX and Digital AES192 inputs, ensuring broad compatibility across different transmitter systems and network architectures. Whether deployed for a single transmitter site or integrated into a larger network, the DB9410-TX delivers consistent, high-quality audio over IP.

Combining DEVA's proven reliability with cutting-edge MicroMPX technology, the DB9410-TX offers broadcasters a cost-effective, future-ready encoder that meets the demands of modern FM transmission. It is the perfect choice for professionals seeking dependable, bandwidth-efficient MPX distribution without compromising audio performance.

By choosing DEVA's DB9410-TX, broadcasters benefit from the company's tradition of innovation, quality, and support—hallmarks that continue to define DEVA's role as a leader in broadcast technology.

FEATURES

- **High quality FM MPX encoding function**
- **High end ADC converter for optimal quality**
- **Ultra low latency, all-digital DSP based design**
- **Remotely upgradable firmware to ensure improved operation**
- **Headphone audio output**
- **Intuitive Embedded WEB server for interactive supervision**
- **Full online remote control of all parameters via IP**
- **Configuration via web user interface for easy setup**
- **Optional Redundant 230V or 48V (DC) power supply**
- **Forward Error Correction to reduce bit errors in data stream**
- **USB flash drive for Audio Backup Storage**
- **SNMP v2c agent permitting full device management**
- **Apple and Android devices support**
- **SNTP for automatic synchronization of the built-in clock**
- **Protected access to the device settings**
- **LAN port for full TCP/IP remote control and monitoring**
- **Attractive price and very good price-performance ratio**
- **Proved and reliable hardware for 24/7/365 operating**
- **1U Rack mountable Aluminum Case for high RF immunity**
- **Easy Installation and Setup**

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SPECIFICATIONS

Audio Encoder	
Codec	µMPX or raw PCM
Sample rates	192 kHz and 216 kHz, 24 bits
Signal Processing	24 Bit AD/DA conversion

PCM	
Bit depth	12 - 16, 20, 24 bit
FEC	RIST, ProMPEG FEC #3, release 2
Bandwidth	2.4 - 4.6 Mbps (no FEC)

µMPX	
Bitrates	320, 384, 448, 576, 800 kbit/s
FEC	µMPX FEC, RIST, Pro-MPEG FEC #3 release 2
Bandwidth	320 - 800 kbps (no FEC)

Analog MPX Input	
Connector	BNC
Type	Unbalanced
Level	+14 dBu (max. +16 dBu)
Sample rate	192 kHz and 216 kHz, 24 bits
Dynamic range	121 dB

Digital MPX AES192 Input	
Connector	RJ-45, balanced, EMI suppressed
Standard	AES3
Sampling Rate	up to 192kHz, 24 bits

GPS Port	
Connector	DB15, Male
Protocol	NMEA 0183, 9600bps
Sync	1 PPS, Square Wave, TTL Compatible

Front panel	
Status Indicators	4 LEDs
Headphones	1/8” (3.5mm) phones jack
USB	Type A for Backup audio player

User interface	
SNMP	ver.2c, ver.3
Web interface	Full control and Status information

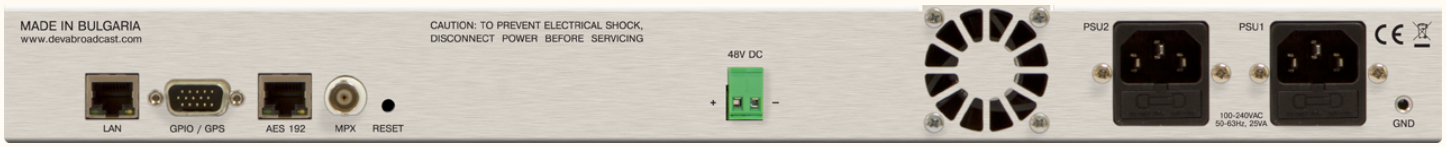
Network	
Connector	RJ-45
Type	Ethernet, 1000Mbps
Device discovery	UPnP support

Operating conditions	
Temperature	-15°C to 55°C
Humidity	< 95%, non-condensing
Altitude	0 to 5000m above sea level

Power	
Voltage	100-240V / 50-60 Hz
Power Consumption	12VA
Connector	IEC320, Fused and EMI-suppressed

Optional Redundant Power Supply	
Option 1: RSPS-AC	90 - 260V AC (nominal 100 - 240V AC) 47 - 63 Hz (nominal 50 - 60 Hz)
Option 2: RSPS-DC	36 - 72V DC (nominal 48V DC)

Size and Weight	
Dimensions (W;H;D)	485 x 44 x 180 mm
Shipping Weight	540 x 115 x 300 mm / 2.673 kg



WE NEVER SPARE EFFORTS AND RESOURCES TO TURN OUR IDEAS INTO SUCCESSFUL PRODUCTS

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