



MPX LINK E1

Stereo encoded audio and RDS over single E1 stream

MAIN APPLICATIONS:

- Digital Microwave Links for FM Networks
- Regenerative Gap-Fillers for Multi-Step Microwave Links
- Compact, Superior-Quality and Cost-Effective MPX Audio Transport through the Public Network
- Connections from Studio to Local or National Radio Network

The **MPX LINK E1** is an encoder - decoder system for the transmission of a MPX audio signal over an E1 stream.

In the **Encoder** version the MPX audio signal is digitized and, after a highly accurate digital processing stage, it is adapted into a 2Mbit/s (E1) stream. The inverse operations are performed in the **Decoder** equipment which receives the E1 stream and returns the MPX audio analogue signal.

No stereo decoding & re-encoding operations are executed in the MPX LINK E1 so the original audio quality is absolutely preserved without **any kind of loss**.

The digital approach gives to MPX LINK E1 all the great advantages of the digital technology compared to the old analogue FM links. In fact, together with the "Digital Link E1" equipment of Elettronika, a Digital QPSK Link with higher coverage is

possible even with lower transmission power thanks to the "digital threshold" effect and to highly efficient error correction codes.

The small 1U rack enables easy and cost-effective integration into more complex systems together with external frequency conversion and amplification equipment.

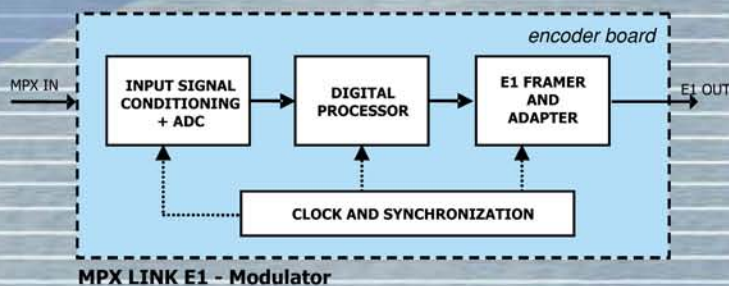
Elettronika equipment is severely tested with highly accurate and professional laboratory testing instrumentation and is guaranteed by the ISO-9001 Quality Certification which ensures a perfectly managed production phase. Elettronika equipment are currently used by valuable world-wide customers, which is the best certification for in-field performance over different operating environments.



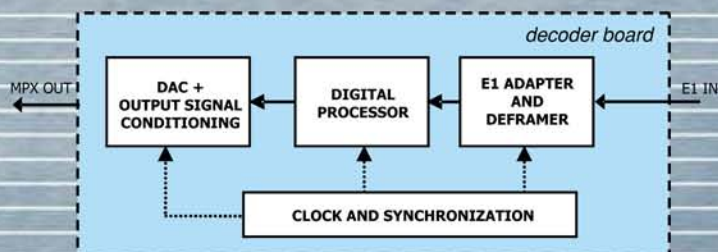
• MPX LINK E1 - Encoder



• MPX LINK E1 - Decoder



MPX LINK E1 - Modulator



MPX LINK E1 - Demodulator





MPX LINK E1

Technical characteristics

AUDIO SECTION

I/O Channels	MPX Audio
Connectors	BNC unbalanced
Input Level	1Vpp max
Input Impedance	10k Ω
Output Impedance	33 Ω
Frequency Response	± 0.05 dB, 20Hz - 53kHz ± 0.3 dB, 20Hz - 57kHz
Sampling Frequency	144kHz
Stereo Separation	> 52dB
SNR	> 80dB
THD	$\leq 0.025\%$
SINAD	75dB

E1 SECTION

Bit-Rate	2.048 Mbit/s (G.703 compliant)
Connectors	BNC 75 Ω RJ45
Options	Encoder external reference

GENERAL

Dimensions	Rack 19" - 1U
Weight	3kg
Front Panel User Interface	LCD Display + Function Keys + 3 LEDs
Power Supply	90 - 260V _{AC} 50/60Hz
Power Consumption	< 15W
Operating Temperature	0 - 45°C

These specifications are subject to change without notice



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