

EM2-VR

One channel Voice / Data combiner
E&M Voice + RS232 Data to E0/DS0

Applications

- Industrial and factory control with voice



Description

The EM2-VR combines a bi-directional 2-wire or 4-wire voice signal with a full duplex RS232 data channel, and transmits it over a 64 kbps synchronous E0 or DS0 channel with a V.35 interface. At the remote end which may be another EM2-VR or an EM200-VR, these combined data/voice signals are separated, and output on their respective connectors. Note that when using a DS0 channel in a T1 carrier, there must be no “robbed bits”. The voice channel supports E&M signaling and a high quality voice which is compressed to 40 kbps. The RS232 channel is data format and speed transparent to rates of 19.2, 9.6, 4.8, 2.4, and 1.2 Kbps and less.

Features

- High quality Voice plus RS232 data over one E0/DS0 channel
- Transparent to standard RS232 rates
- USB configuration port shows network-wide status
- 2-Wire or 4-Wire voice

- Back to back operation
- Isolated 48VDC power input
- Industrial temperature -40°C to 70°C
- 5 Year warranty

EM2-VR back to back connection



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Specifications

E0/DS0 Port

E0/DS0 Port	1
Configuration	DB-25P
E1 Line Code	HDB3
E1 Data Rate	2048 Kbps
Standards	G.703, G.736, G.775
Line Impedance	Balanced 120 ohm

RS232 Port

RS232 Port	EIA/TIA 561 DCE
Data rates	19.2, 9.6, 4.8, 2.4, and 1.2 Kbps or less
Input/Output connectors	RJ-45

Audio Port

Number of audio channels	1
Input/Output connectors	RJ-45
Input/Output impedance	600 ohms nominal
Analog bandwidth	200 Hz to 3.4 kHz
Analog input Level without significant distortion	7 Vpp
Analog insertion gain adjustable	0, +/-1, +/-2, +/-3 dB
Encoding	5 bit ADPCM
Idle channel noise (C Message Weighted)	< 20 dBBrnC
Idle channel noise (3 kHz flat)	< 27 dBBrn
Tip/Ring DC voltage	0V

Power Source

Power source (Stand-alone version)	48VDC
Supply voltage range (stand-alone version)	36V to 62V DC
Input connector	2.1mm barrel jack

General

Operating temperature	-25°C to +71°C
Humidity (RH)	10% to 95%
MTBF	> 50,000 hours
Dimensions, stand-alone version (H*W*D)	8.9 * 13.5 * 2.4cm
Dimensions, rack version (H*W*D)	11.4 * 2.9 * 17.5cm

* Specifications are subject to change without notice.

Part Numbers

* For additional accessories, please consult with Luxcom.

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