

Product Overview

IPR400 S2

The IPR400 S2 is a full featured, fast and flexible multi-channel RoIP and interoperability gateway, combining Voice over IP extensions for analog radio equipment and interoperability between disparate radio systems all in one.

The 4 ports of the IPR400 S2 can be linked together internally to the IPR400 S2 or with VoIP in a myriad of combinations, making the device ideal for connecting repeater sites. The gateway also features SIP connectivity for use with dispatch consoles such as RediTALK-Flex, **altusomni** or **omnicore**.



Power

Operating Supply Voltage	12VDC/24VDC nominal (11.5VDC to 28VDC)
Operating Current (12V)	560mA (regulated) 470mA with LCD off

Radio Ports

Connector	8-way US modular
Configuration	4-wire transformer coupled or 2 wire transformer coupled half duplex via software control
Input Impedance	600Ω or high impedance via software control
Output Impedance	300Ω
Input Levels	-30dBm to +12dBm
Output Levels	
Software Level Attenuation / Gain	-20dB to +10dB
Frequency Response	300 to 3000Hz (within 1dB)
E-Input Lead Input	Opto-coupled @ 5 to 30VDC. Link configurable for voltage, contact, switched ground or switched power
M-Output Lead	Relay contacts limited to 30W (30VDC @ 1A). Link for voltage contact, switched ground or switched power.

Auxiliary Input/Output

DB25 AUX Connector	8 x 0 to +5V analog inputs 2 x Opto coupled inputs (same specification as E lead) 2 x Relay coupled outputs (same specification as M lead)
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RS232 Ports

Connector	DB9 Female (DCE)
Type	RS232 Asynchronous
Data Rate	1200bps to 38400bps Default 19200bps
Configuration	8/7 Data, 1/2 Stop, None/Even/Odd parity

Debug Interface

Type	USB Asynchronous Serial
Data Rate	Default 19200bps
Configuration	8 Data, 1 Stop, No parity

Network Interface

Interface	10 BASE-T or 100 BASE-TX Ethernet with auto detect
Protocol	RTP
Codecs	G.711, G.726 ADPCM, GSM (13kbps)

Front Panel Indicators

Front panel LED	Ethernet link activity Ethernet link established Processor run VoIP link established Serial data active
LCD	2 x 16 backlit dot matrix

Physical

PC Board	1606A1 Rev 1.00
Dimensions	485mm(W) x 45mm(H) x 255mm(D)

Environmental

Operating Temperature	0 to 60°C (32 to 140°F)
Storage Temperature	-20 to 85°C (-4 to 185°F)
Humidity	95% non-condensing