



TRip – PMR IP Gateway Unit

Key Features

- 4 wire 600 ohm interface
- RS232 serial interface
- 8 logic inputs/outputs
- 10/100 BaseT network connection
- Remote configuration & management
- Local configuration
- System monitoring



In Brief

The TRip is a purpose built IP device designed specifically for the PMR system suppliers and PAMR Trunk Radio operators or service providers.

Using data and voice convergence technology, AWCSL have produced an interface which replaces the permanent leased private circuit with a connection over either an internal IP network or the internet using voice over IP (VOIP) protocols.

The TRip provides client with the opportunity to have a “virtual” four wire 600 ohm circuit between any two locations that can be connected via an IP network as well as a “virtual” RS232 connection between the same two locations.

For security of the virtual connection, a remote TRip Gateway will only allow a connection from addresses set in in either its main or back up IP address configuration parameters.

Facilities

The advantage of the TRip is the considerable saving to be made from not using expensive leased private circuits. However, as the connection between two TRip units is “virtual” the IP infrastructure will automatically find any possible alternative routes if any part of the connection should fail. Also continuous checking of the connection status takes place giving an instant alarm if there should be a failure of any part of the system.

Once an alarm has occurred, the TRip can be programmed to automatically send an email to a designated email address indicating that a fault has occurred and the nature of that fault.

The Audio interface provided by the TRip will take a single analogue transmit and receive audio path (four wire, 600 Ohm) with a bandwidth between 300Hz and 3400Hz, and convert this to digital signalling using its internal Codecs.

Each TRip unit will provide a remote terminal server capability through its remote RS232 port. This will provide a direct RS232 path across the IP network. The connection between two units will be on a point-to-point basis, thus being completely transparent.

User Configurable

In common with all AWCSL products the TR*ip* is fully user programmable, locally via the configuration port or remotely using a Telnet connection, a PC based configuration tool is also available from our web site.

Options

To facilitate rack mounting, up to 16 TR*ip* units can be installed into a compact 3u shelf.

To provide remote control of legacy radio equipment the TR*ip* unit has been designed to function with all existing AWCSL Desktop Remote Controllers and Switch Systems.

Connectors

RJ45	Line connector and remote RS232 serial port
RJ45	Ethernet connector
RJ11	RS232 Local configuration
9 way D-type	Logic inputs/outputs
2 pin power socket	separate power supply input

Specification

Dimensions	106mm(w), 128mm(d) & 34mm(h)
Power Supply	12v dc @ 500mA (power supply provided with unit)
I/O	Qty 8 User Configurable pins Outputs: Open collector Inputs: Internal pull up
Line	-2 to -20dBm 4 wire 600ohms (nominally set to -10 dBm)
Audio Compression	G.711at 64kbps G.729at 8kbps G.723at 6.3kbps G.723at 5.3kbps
Case	Rugged aluminium extrusion

In the interests of continued development, AWCSL reserves the right to change this specification without notice.

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