Challenging Communication Boundaries

619TL

interoperability for tactical operations

omnitronics

FEATURING:

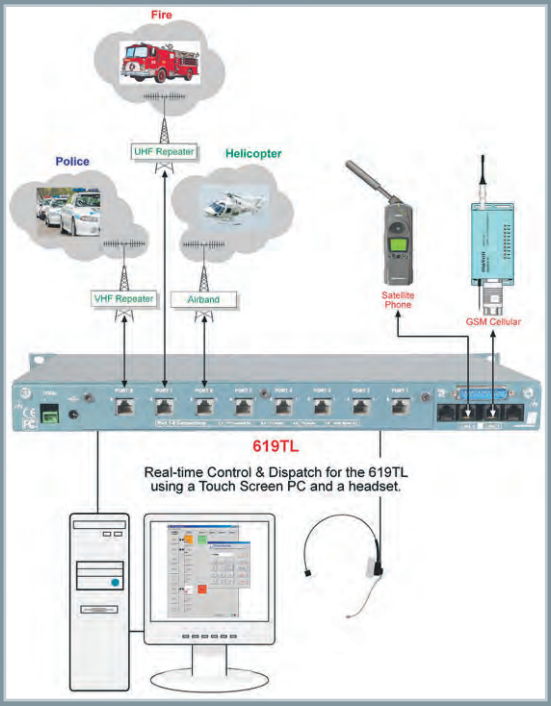
- ***Interconnection of up to eight channels with multiple link groups***
- ***Built-in support for two PSTN lines***
- ***Headset connection for operator communications***
- ***Standalone operation without an operator***
- ***TL-Link PC touch screen application for channel linking and dispatch control***
- ***Proven Omnitronics audio bridging technology of the 619SRI***
- ***Simple and compact installation***

BENEFITS:

- ***Provides tactical interoperability between HF, VHF, UHF, satellite and cellular phone***
- ***Re-configurable through DTMF***
- ***Simple, easy to understand radio & telephone dispatch***
- ***Quick to deploy***
- ***Based on proven technology***
- ***Very cost-effective***

The 619TL Tactical Linker provides a cost effective method of interconnecting and controlling radio and PSTN networks in a tactical environment. The combination of hardware and PC application allows an operator to establish and dynamically control link groups and to communicate over the radio or PSTN networks using a handset, console or the standard headset.

The 619TL is ideally suited to public safety agencies and defence forces where it can provide interoperability between disparate radio systems and fixed or cellular telephone installations. The system is easy to deploy, simple to operate and very cost effective.



TL-LINK GUI

FEATURES:

- ***Supports up to eight channels***
- ***Four patch/link groups***
- ***Simple touch screen control***
- ***On-screen control for the operator's headset***
- ***Talk or monitor on selected channels***
- ***Answer and make telephone calls***
- ***Save and load pre-set configurations***

TL-Link is the graphical user interface that runs under Windows 98/XP and makes real-time control possible. It provides three key functions:

1. It allows an operator to dynamically alter the link paths;
2. provides a simple radio dispatch facility
3. enables the operator to make and receive telephone calls. TL-Link presents the operator with four possible link groups. The operator can place any device in a link group by first clicking on the device icon then clicking on the group grid. A device may also be placed in multiple link groups.

The operator can select which channels they wish to monitor only, and those that they wish to speak on. When a channel is in the "MON" mode, the operator will hear the received audio on the dedicated handset/console but will not be able to transmit on that channel. However, any channel that is in the "TALK" mode can be used for transmission by simply pressing the PTT key on the dedicated handset or console. Any channel can also be disabled so that no audio is heard by the operator.

One or two telephone channels can be configured in TL-Link. These will always occupy the first and second device positions and would typically be used to connect to satellite phones and GSM gateways. A telephone device can be placed into a link group with radio channels. Ringing is indicated to the operator by a ring tone in the operator's headset/console and the device icon flashing green. Whilst the line is ringing, the operator can click on the flashing icon to answer the call. The PSTN line can then be placed in a link group, if required. The operator can also initiate a phone call by clicking on a PSTN icon to display the dialler window. The operator can then enter the required dial string.

HARDWARE

Each of the radio ports on the 619TL supports four-wire audio and E & M signalling. The audio is balanced with 600-Ohm transformer coupling. This provides isolation between devices and virtually eliminates ground noise and induced signals – an important consideration when providing interoperability between several radios. The E & M facilities also provide isolation and can be configured for relay control or opto (voltage) input/output. Links also allow both inputs and outputs to be configured to source or sink power. The device also provides other key features such as software level adjustment and CTCSS operation. The dual channel telephone interface is an optional component that replaces one or two of the radio ports.

The 619TL also provides an operator audio interface to a headset or an Omnitronics console, through a front panel RJ45 connector. This is in addition to the eight audio ports. The headset port enables the operator to monitor radio or phone activity and to talk on any selected radio channel or PSTN line. The headset port supports a PTT switch and Omnitronics can also supply either a basic handset such as a 960HC or a fully featured console such as a 960CSD.

POWER SUPPLY	
Voltage	11V DC to 28V DC
Current	220mA (max.)
SIGNAL INTERFACE	
E-Input Lead	Opto coupled @ 5V to 30V DC. Link configurable for voltage. Contact, switched ground or switched power.
M lead	Relay contacts limited to 30W (30V DC or 1A). Also link configurable for voltage, switched ground or switched power.
RADIO AUDIO INTERFACE	
Input Levels	-27dBm to +12dBm
Output Levels	-27dBm to +4dBm
TELEPHONE INTERFACE	
Input Levels	-40dBm to 0dBm
Output Levels	-30dBm to 0dBm
Impedance	600 Ohms
FREQUENCY RESPONSE	
350 Hz to 3.7kHz	Within 1dB
Input to Output Isolation	Better than 50dB
Cross talk between channels	Better than -60dB
Distortion (Input to Output)	0.25% (-50dB)

HEADSET PORT	
Microphone Input	-40dBm to +5dBm
Speaker Output	-4dBm into 32 ohms
PTT Input	5V 0.5mA (contact to GND)
TONE SIGNALLING	
SELCALL	5 to 7 tones (CCIR standard)
CTCSS	67Hz to 254Hz
Inband tones	2175Hz, 2325Hz, 2500Hz, 2600Hz, 2970Hz
DTMF	50ms (MIN) tone plus pause
FRONT PANEL	
LCD	2 line by 16 character
Function Switches	Menu navigation
PHYSICAL	
Weight	1.7kg (unpackaged)
Dimensions	H = 44mm (1RU), L = 484mm (19"), D = 265mm
ENVIRONMENTAL	
Temperature	0 to 60 degrees C.
Relative humidity	0 to 95% non-condensing
GUI INTERFACE	
Interface to 619TL	RS-232
Operating System	Windows XP
Screen Resolution	800 x 600 (MIN)

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