

# PACCS Link RFI595F Intelligent UHF Radio Modem

The RFI 595F is a high-speed radio modem capable of functioning in hostile RF environments with data throughput of 9600 bps. Intelligent integrated software allows many different data configurations, including store and forward repeater operation and intelligent protocol routing for large SCADA systems.



- > Economical
- Built in path testing
- > In built in diagnostics
- Front panel indicators
- Up to 50 km in one hop
- Forward error correction
- Can be commissioned without test equipment





### Point to Multipoint Acquisition and Control

Intelligent built in Modem can interface with virtually any standard Data logger, PLC, computer; i.e. any RS232 device. In built buffers handshake with input/output devices at data speeds up to 38400 bps and transparently move data to the other end.

### Linking of Local and Remote RS232 Ports

The built in TXCO provides +/-1ppm stability as standard with the provision for an external input when a higher stability is required.

### **Special Functions**

Software options include store and forward repeater function, which permits remote hilltop repeater applications. There is no progressive degradation of Signal to Noise Ratio as the repeater function brings the signal back to digital base band. Also, the radio modem supports many industry standard communications protocols with routing tables and packet timers. For more information on protocol support contact the Wired & Wireless Solutions International.

# SPECIFICATIONS MODEL RFI 148-100 DTX

## Physical

Dimensions

Weight

Construction

#### General

Operating voltage

Operating current Standby mode Transmit mode

Operating temperature range

Operating humidity range

Approvals

# Transmitter

Output power Switching range Frequency raster Carrier stabilisation Frequency stability Spurious emissions Adjacent channel performance Output protection

# Data System

Modulation

Simulcast support

Diagnostics

19" Rack mount, 4RU high, 395 mm deep

18kg

Welded and passivated m/steel, aluminium front panel with integrated Display

AC: 85-132VAC or 170-264VAC auto select. 47 - 400Hz DC: +24VDC +/-1V @ 12 A

400mA (24VDC) (nominal) 12A (100W, 24VDC) (nominal) 11.5A (75W, 24VDC) (nominal) 7.8A (50W, 24VDC) (nominal) 5.1A (25W, 24VDC) (nominal)

-10 to +60oC

Up to 95% non-condensing relative humidity @ 50oC

AS/NZS 4769.1 : 2000, AS-4295 : 1995

25W to 100W, software selectable (100%duty cycle) 138 - 174MHz (25kHz channels), up to 16 channels 10kHz, 12.5kHz 50ms (max) 1ppm standard (External input if required) < -80 dBc / -30dBm (max) < -70 dBc / -22dBm (max) Transmitter fully protected for any load @ full power @ 60oC

Protocols supported: POCSAG: 512 / 1200 / 2400bps (2-FSK) ERMES: 6250bps (4-FSK) FLEX: 1600 / 3200 / 6400bps (2-FSK/4-FSK) Direct Digital Synthesis (DSP implementation): Modulation rise/fall-time as per recommendations Asynchronous POCSAG data interface Synchronous ERMES/FLEX data interface

Frequency reference: Internal (TCXO) / external (GPS), with automatic switch-over Carrier offset: Up to 3000 Hz (1 Hz steps) Absolute delay: 0-40ms (5us steps)

Windows<sup>™</sup> management application: Local configuration and diagnostics Automatic remote alarm / status reporting over dial-up link Central remote monitoring via dial-up link

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