# 1.4 GHz

# **NEW 1.4 GHz LICENSED RADIO**



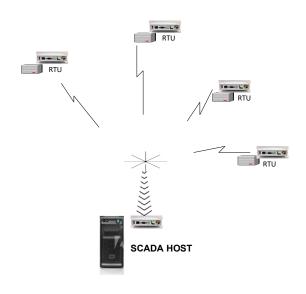
### **Overview**

- Designed for Ethernet and RS-232
  Wireless SCADA Networks
- Operates within 1.4 GHz FCC Licensed Spectrum
- Diagnostics, On-Line Monitoring and Parameter Controls
- <u>Automatic Global Frequency Control</u>

Alligator's Model CIR1470L-QS1 1.4 GHz Critical Infrastructure Radio is ideal for licensed point-tomultipoint wireless data link operations in the licensed FCC 1427 – 1432 MHz band. The QS1 is designed and manufactured to superior specifications for performance and long-term reliability. Digital modem technology and Ethernet and RS-232 standard serial data interfaces ease of system integration tasks. The QS1 provides a unique system diagnostic port for on-line configuration and remote terminal interconnectivity management.

### **Applications**

Telemetry and SCADA Link data operations for Water, Waste Water, Fire Station Signal Controls, Petroleum and Gas Production, Metering and Transport monitoring applications, as well as services in Electrical Energy metering and distribution systems. Ideal for 1.4 GHz Government data communications and Railway / Transportation Signaling.





## Model CIR1470L-QS1 Radio

50.0 kHz

### Technical Specifications

#### TRANSMITTER

Frequency Range(MHz):	1427.0 – 1428.5 1428.5 – 1432.0
RF Output Power:	0.6 Watts
Output Impedance:	50 Ohms
Duty Cycle:	50%
Attack Time:	< 6 msec
Spurious Emissions:	< -60dBc
Temperature Range:	-30 °C to +60°C
Frequency Stability:	± 1.0ppm
Programmability Step Size: Data Rates: Channel Bandwidths:	1.0 Hz 3-19.2kbps 12.5 kHz 25.0 kHz 50.0 kHz

### RECEIVER

Frequency Range (MHz):	1427.0 – 1428.5 1428.5 – 1432.0
Temperature Range:	-30 °C to +60°C
Frequency Tolerance:	± 1.5 ppm
Programmability Step Size:	1.0 Hz
Sensitivity (12dBSINAD):	< 0.30uV
Input Impedance:	50 Ohms
Rx Attack Time:	< 1.5 msec
Spurious & Image Reject:	< -70 dBm
Intermodulation:	< -75 dBm
Selectivity @12.5kHz:	< -80 dBm
Selectivity @25.0kHz:	< -85 dBm
Selectivity @50.0kHz:	< -90 dBm
Data Rates:	.3-19.2kbps
Channel Bandwidths:	12.5kHz
	25.0 kHz



315 Brokaw Santa Clara CA 95050 www.alligatorcom.com

#### **GENERAL**

Input Power:	13.6Vdc
Rx Current:	80mA
Tx Current:	750mA
Duty Cycle:	50%
Attack Time:	< 6msec
Temperature:	-30 °C to+60°C
Humidity:	95% @40°C
Data Interface:	Ethernet or RS-232
Data Connector:	D-Sub9F

#### **CERTIFICATION**

FCC Certification: FCC Identifier: FCC Emission Designators:

Part90.259 CIR-1470L 12K5F1D 25K0F1D 50K0F1D

Tel: (408) 327-0800 Fax: (408-327-0808 info@alligatorcom.com