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Integra-TR™

Serial Radio Modem For Licensed Spectrum

RUGGED CONNECTIVITY FOR REMOTE MONITORING APPLICATIONS

The Integra-TR from CalAmp provides advanced features without complicated system setup. Available for UHF and VHF, the Integra-TR offers reliable data communications over an extended range. Virtually real-time data is transferred through this PC programmable, transparent modem with CWID for identification and CSMA to minimize retries and reduce channel interference.

Data-activated transmit (DOX) automatically activates the transmitter in the presence of data without needing an RTS handshake from terminal equipment. The Integra-TR also supports CTS flow control when the terminal rate exceeds the network rate. The Integra-TR also prevents transmission of any extraneous data bits to the terminal device, making it the perfect choice when working with protocols that cannot tolerate extra data bits.

Remote online diagnostics monitor and maintain your communications link. Power, temperature, voltage, signal strength, antenna/feedline condition, and data decode performance are transmitted without application interruption.

Experience The Advantage

> Up to 19.2 kbps error-free data

> Separate application and setup/diagnostics ports

> 1-5 Watts operation, software selectable

> Diagnostic output supports OPC-enabled diagnostics feature

> Full application transparency

> Extended temperature range for harsh environments

GENERAL

Frequency Range	VHF: 136-162 MHz, 148-174 MHz
	UHF: 406.1-440 MHz, 440-476 MHz
Channel Bandwidth	VHF: 6.25 and 12.5 kHz, or 12.5 and 25 kHz
	UHF: 6.25 and 12.5 kHz, or 12.5 and 25 kHz
Data Bit Rates	
6.25 kHz:	2400/4800 bps
12.5 kHz:	4800/9600 bps
25 kHz:	4800/9600/19200 bps
Modes of Operation	Simplex, Half-Duplex
Modulation	DRCMSK
Certifications	FCC, IC

RECEIVER

Sensitivity	0.35 µV for 12 dB SINAD
Alternate Channel	
6.25 kHz:	>60 dB min
Adjacent Channel	
12.5 kHz:	>55 dB min
25 kHz:	>65 dB min
Intermodulation	>70 dB min
Spurious Rejection	>70 dB min
Conducted Spurious	<-57 dBm

TRANSMITTER

Frequency Stability	1.5 ppm 12.5 kHz and 25 kHz
	0.5 ppm 12.5 kHz and 6.25 kHz
Carrier Output Power	1-5 Watts adjustable
Output Impedance	50 Ω
Duty Cycle	50% max, 30 seconds (extended Tx time with cooling fan option)
Spurious and Harmonics	-20 dBm

ELECTRICAL

Tx Current	< 2.6A @ 13.3V
Rx Current	< 270mA @ 13.3V
Primary Power	10-16 VDC

MECHANICAL/ENVIRONMENTAL

Nominal Dimensions	4.50 W x 2.4 H x 4.75" D
	(11.4 x 6.1x12.1 cm)
Shipping Weight	1.6 lbs (0.73 kg)
Operating Temperature	-30° to +60° C

INTERFACES

COM, SETUP	(2) Serial RS-232 DB-9
Antenna	SMA female (Tx/Rx)
LEDs	4 bi-color status