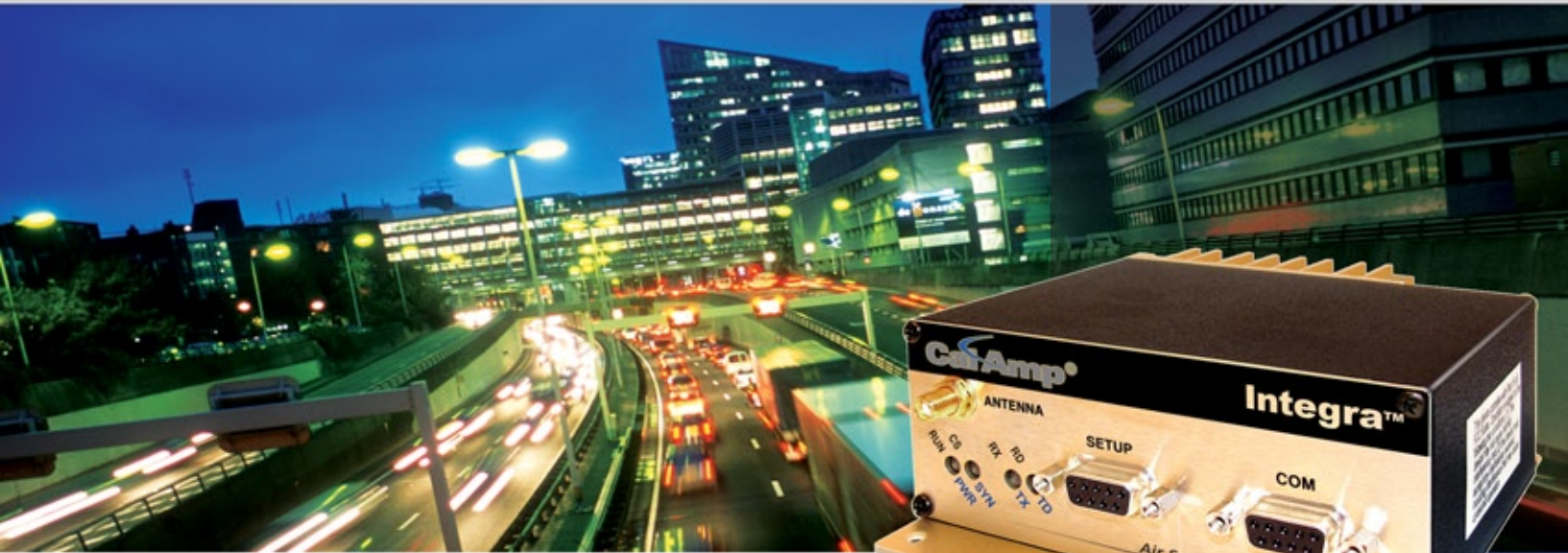


Integra-TR™

SERIAL RADIO MODEM FOR LICENSED SPECTRUM

136-162 MHz | 148-174 MHz | 406.1-440 MHz | 440-476 MHz

CalAmp®



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



Integra-TR Specifications

General

Frequency Range	VHF: 136-162 MHz, 148-174 MHz UHF: 406.1-440 MHz, 440-476 MHz
Channel Bandwidth	12.5 kHz, 25 kHz
Modes of Operation	Simplex, Half-Duplex
Modulation	DRCMSK
Certifications	FCC, IC

Receiver

BER @ 1x10-6	
12.5 kHz	-104 dBm @ 4.8 or 9.6 kbps
25 kHz	-107 dBm @ 4.8 or 9.6 kbps, -100 dBm @ 19.2 kbps
Adjacent Channel	> 65 dB @ 25 kHz; > 55 dB @ 12.5 kHz
FM Hum and Noise	< -45 dB max
Conducted Spurious	< -57 dBm

Transmitter

Frequency Stability	1.5 ppm
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 6.1 x 12.1 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)



CalAmp's industrial wireless solutions combine utility-class performance and the proven reliability needed for mission critical communications. Our ruggedized line of licensed, unlicensed, and cellular devices provide narrowband, wideband and broadband data connectivity for fixed and mobile applications.

