

Integra-TR[™] Serial Radio Modem for Licensed Spectrum

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

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

RUGGED CONNECTIVITY FOR REMOTE MONITORING APPLICATIONS

Integra™

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.



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 |

CalAmp Corp. (NASDAQ: CAMP) is a proven leader in providing wireless communications solutions to a broad array of vertical market applications and customers. CalAmp's extensive portfolio of intelligent communications devices, robust and scalable cloud service platform, and targeted software applications streamline otherwise complex machine-to-machine (M2M) deployments. These calutions applies outpemper to aptimize their operations by collocting

solutions enable customers to optimize their operations by collecting, monitoring and efficiently reporting business critical data and desired intelligence from high-value remote assets. For more information, please visit

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) |
| LEDs | 4 - tri-color status |

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About CalAmp

www.calamp.com.