

## CiPHR™

Rugged Mobile Data Modem for Cellular Networks



**NEW!**

### Key Features

- Integrated local and remote GPS
- Built-in Wi-Fi access point
- I/O capability
- Supports multiple devices using an external hub
- Rugged enclosure with a wide operating temperature range

### Key Benefits

- Provides location info for AVL and for local mapping
- Supplies wireless tethered connectivity to handheld devices or lap top
- Monitors contact closure for alarm or status
- Connect up to 4 wired and wireless devices
- Suitable for trunk mounting in demanding environments

When a Cellular solution is the preferred choice for mobile data transmissions, or when you wish to augment your existing private network, the rugged CiPHR mobile data modem from CalAmp provides reliable mobile data connectivity. It operates over CDMA 1xEV-DO Rev A and 1xRTT or GSM HSDPA, EDGE and GPRS networks.

**DESIGNED TO PROTECT AND SERVE.** CiPHR incorporates a highly sensitive 16-channel GPS receiver and an intelligent algorithm that offers outstanding receive sensitivity. When lives depend on knowing exactly where you are, you can breathe easier knowing CiPHR delivers improved accuracy, integrity, and availability of GPS signals - even when the on-board computer is turned off or removed.

CiPHR is an intelligent wireless router built tough to provide reliable service in demanding public safety wireless data applications. Harsh environments and extreme conditions create challenging requirements for temperature range, shock and vibration resistance of the equipment you depend on.

**STEP AWAY FROM THE VEHICLE** with wireless routing through the optional Wi-Fi module! You can leave your vehicle and remain connected through the Wi-Fi tether making it that much easier and safer to perform your job duties.

**ALWAYS READY FOR DUTY WITH LESS DOWN TIME.** Capitalizing on over 25 years of experience designing mission critical wireless data technology, CiPHR offers convenient, secure, remote management capabilities with password protected configuration and maintenance.

To ensure the value of your investment, CiPHR comes with a one-year warranty. Extended warranty plans are available.

	VERSION 1.0 CDMA	VERSION 2.0 GSM
Frequency Range	Dual Band 800/1900 MHz (supports RX diversity)	UMTS/HSDPA Tri-band 850/1900/2100 MHz
Network Data Speed	1xEV-DO Rev A (IS-856-A) <ul style="list-style-type: none"> <li>Forward link up to 3.1 Mbps</li> <li>Reverse link 1.8 Mbps</li> </ul> 1xEV-DO Rev 0 (IS-856) <ul style="list-style-type: none"> <li>Forward link up to 2.4 Mbps</li> <li>Reverse link 153.6 Kbps</li> </ul> 1xRTT (IS-2000) <ul style="list-style-type: none"> <li>Forward link up to 153.6 Kbps</li> <li>Reverse link up to 153.6 Kbps</li> </ul>	<ul style="list-style-type: none"> <li>Forward link up to 3.6 Mbps</li> <li>Reverse link up to 384 Kbps</li> <li>Power Class 3 (+24 dBm)</li> </ul> EDGE/GPRS Quad-band 850/900/1800/1900 MHz <ul style="list-style-type: none"> <li>Forward link up to 236 Kbps</li> <li>Reverse link up to 236 Kbps</li> <li>Power Class 4/EDGE E2 850/900 MHz</li> <li>Power Class 1/EDGE E2 1800/1900 MHz</li> </ul>
General Features	<ul style="list-style-type: none"> <li>Receive Diversity RF antenna connector (SMA) (EV-DO version)</li> </ul>	<ul style="list-style-type: none"> <li>WiFi IEEE 802.11b/g, 2.4GHz</li> <li>22-pin Micro-Fit I/O connector</li> <li>4 Analog Inputs / 4 Digital Inputs / 4 Relay Outputs</li> <li>Transmit/Receive Wi-Fi antenna connector (SMA), optional</li> <li>External SIM card access</li> <li>USB device connector (EIA-232F DE9 Female DCE)</li> </ul>
Physical	<ul style="list-style-type: none"> <li>4-pin Micro-Fit power connector with ignition sense</li> <li>4 tri-color Status LEDs, optional 5th LED (Wi-Fi)</li> <li>Serial connector (EIA-232, 230 kbaud max.)</li> <li>Ethernet host connector with activity LEDs (10/100 Mbps, automatic MDIX)</li> <li>16 channel GPS</li> <li>GPS antenna connector (SMA)</li> <li>Transmit/Receive RF antenna connector (TNC)</li> <li>Reset button</li> </ul>	
Mechanical Dimensions	5.51" x 6.0" x 1.77" (14 x 15.25 x 4.5 cm)	
Weight	2.65 lb (1.2 kg)	
Voltage Range	9 - 28 VDC, 4-pin Micro-Fit connector with ignition sense <ul style="list-style-type: none"> <li>Designed for 12 and 24 volt automotive systems</li> </ul>	
Operating Temperature	-40 to +185°F (-40 to +85°C); MIL 810F 501.4 / 502.4	
Storage Temperature	-40 to +185°F (-40 to +85°C)	
Vibration	MIL 810F 514.5; SAE J1455 4.9	
Shock/Drop	MIL 810F 516.5; SAE J1455 4.10.3.1/2/4	
EMI	FCC Part 15, Class B	
Approvals and Certifications	FCC, Industry Canada, PTCRB, EU RoHS, CE	
Carrier Approvals	Verizon Wireless, Bell Canada	

