

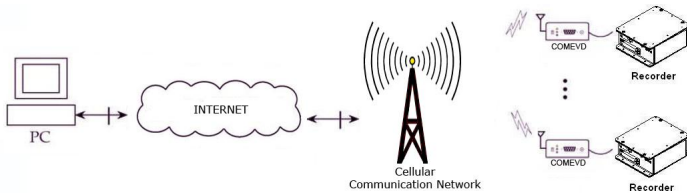
EVDO or 1xRTT Cellular Network Transceiver - COMEVD

Features

- Cellular EVDO revA or 1xRTT communication for ISAAC Instruments Recorder
- Two frequency bands for use in North America (850/1900) (Antenna not included)
- Fleet Management and asset tracking in real time
- Rugged enclosure and small size
- FCC et IC certified

Description

The COMEVD uses cellular network EVDO revA or 1xRTT to wirelessly transmit data from an ISAAC Instruments Recorder to a PC.



The PC is connected to the internet with a known IP address. Once it is switched on, the ISAAC Instruments Recorder automatically connects to the ISAAC Instruments Communication Service, installed on a PC over the network.

The COMEVD can be used with the following antennas:

Part Number	Description
WRLGPR-AN1	Magnetic base antenna for North America (850/1900 MHz)
WRLAN4-111	Antenna to be fixed on the roof of the vehicle. 4 bands for Wi-Fi, GPS and Cellular (850/1900 MHz)



Installation

Setup:

- Using Dual-Lock™ Velcro, install the COMEVD, in a dry and well ventilated area, within 30 cm (12") of the Recorder. Avoid installing the module near any heat source
- To get the optimal wireless connectivity, install the antenna outside of the vehicle chassis, on a metallic surface
- Plug the antenna to the SMA connector of the COMEVD
- Connect the COMEVD to one of the Recorder COM port (COM1, COM2 or COM3)
- Route the cable at least 20cm (8") away from high interference electrical devices, such as: ignition coils, plug leads, high-current leads, high emission electronic modules or antennas

Software configuration:

COM Port Activity: COMEVD – EVDO or 1xRTT

IP address: The IP address of the PC on which the ISAAC Instruments Communication Service is installed.

TCP Port: The TCP port of ISAAC Instruments Communication Service.

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Specifications

Description	Symbol	Min.	Typ.	Max.	Unit
Power requirements					
Power supply voltage	V_{in}	9		28	V
Current (Idle) @ 12V	I_{idle}		104		mA
Current (transmission/reception) @ 12V	$I_{Tx/Rx}$		350	450	mA
Data packet					
Frequency Standard	Freq	850 (cellular), 1900 (PCS) EVDO Revision A / 1xRTT			MHz
Antenna					
Connector	Con	SMA			
Impedance	Imp	50			Ohm
Certifications	FCC IC	FCC Industry Canada			
Environment					
Operating Temperature	T_{Oper}	-30 (-22)		70 (158)	°C (F)
Storage Temperature	T_{Stor}	-40 (-40)		85 (185)	°C (F)
Mechanical Properties					
Height	H	27 (1.062)			mm (in)
Width	W	76 (2.992)			mm (in)
Depth	D	100 (3.937)			mm (in)