



### Specifications

General	
Data Rate	9.6 kbps raw over-the-air
Frequency Band	405-450 MHz
Channel Bandwidth	12.5 kHz
Timing Mode	GPS PPS RS-422
Over-the-Air frame structure	TDMA, 47 timeslots per second, 9 Payload Bytes per slot

Radio	
TX Power	2 Watts (33 dBm) (+/- 1.5 dB)
Output Impedance	50 Ohms
Occupied Bandwidth	12.5 kHz
Modulation	GMSK Bt 0.3
RX Sensitivity	-116 dBm for 12 dB SINAD
RX Co-Channel	-15 dB
RX Adjacent Channel	1 <sup>st</sup> : 55 dB, 2 <sup>nd</sup> : 57 dB, 3 <sup>rd</sup> - 5 <sup>th</sup> : 60 dB
Intermodulation Rejection	500 kHz / 1 MHz: 55 dB
Blocking	> 1 MHz: -30dBm
Frequency Stability	1.0 ppm (-30C - +60C)
RX Noise Figure	< 7 dB

Physical Interface	
DB-25 Connector	2 x RS-232C Serial Ports (1.2 to 115.2 kbps) 1 x GPS PPS input (RS-422)
Antenna	TNC Connector (Female)
Power	2-pin locking phoenix type
LEDs	PWR, COM1, COM2, LINK

Protocols	
Management	Serial Console
Payload	Basic Serial Protocol (BSP)

Environmental	
Temperature:	-30C - +70C (-22F - +158F)
Humidity	95% at 40C (104F) non-condensing
Input Power	10 to 16 VDC 2A Max

Mechanical	
Case	Die Cast Aluminum
Mounting Options	Flat surface mount brackets, DIN rail
Dimensions	5.32" L x 3.64" W x 1.34" H
Weight	1.04 lbs

Agency Approvals	
Declaration of Conformity for Australia	
CSA	Class 1 Div 2 Groups A, B, C and D for hazardous locations (ANSI/UL equivalent)

Maximum Ratings	
RF Power Level into Antenna Jack	0 dBm

For additional information, please visit [gemds.com](http://gemds.com)

GE MDS reserves the right to make changes to specifications of products described in this data sheet at any time.