



Specifications

Physical Interface	
DB-25 Connector	10-BASE-T Ethernet 2 RS-232C Serial Ports (1.2 to 115.2 kbps) GPS PPS input (TTL)
USB	USB Type 1.1
Antenna	Type N Connector (Female)
Power	2-pin locking molded cable
LEDs	PWR, ETH, TX, RX

Protocols	
Wireless	Open (no MAC) with STFP protocol.
Ethernet	IEEE 802.3, IP (DHCP, ICMP, UDP, TCP, ARP), STFP over UDP/IP
Management	Serial Console, Telnet, SNMP, SYSLOG3

Agency Approvals	
FCC	CFR Title 47 Parts 2, 15, 80, 90, 95
CSA	Class 1 Div 2 Groups A, B, C and D for hazardous locations (ANSI/UL equivalent)
Anatel	Received 2011

Environmental	
Temperature:	
25 W / 30% Duty**	-40C - +60C (-40F - +140F)
10 W / 30% Duty**	-40C - +70C (-40F - +158F)
2 W / 100% Duty	-40C - +70C (-40F - +158F)
Humidity	95% at 40C (104F) non-condensing
Input Power	11.5 to 14.2 VDC, 13.8 VDC nominal

** Consider GE MDS eNETL2T Power Amplifier for 100% Duty Cycle Applications over 2 Watts.

Mechanical	
Case	Die Cast Aluminum
Mounting Options	Flat surface mount brackets, DIN rail
Dimensions	7.2" L x 5.2" W x 2.0" H
Weight	2.5 lbs

Maximum Ratings	
RF Power Level into Antenna Jack	0 dBm

General	
Data Rate	9.6 kbps raw over-the-air
Frequency Band	FCC: 216.0-221.9875 MHz Anatel: 242-247/256-261 MHz
Channel Bandwidth	12.5 kHz
Timing Modes (mutually exclusive)	<ul style="list-style-type: none"> GPS (Base) <ul style="list-style-type: none"> NMEA 0183 via COM2 1PPS 0-5 VDC PTP (Base) <ul style="list-style-type: none"> IEEE 1588-2008 PTPv2 Over the Air (Mobile)
Over-the-Air frame structure	TDMA, 8 timeslots per second, 117 Bytes per slot with FEC 133 Bytes per slot without FEC

Radio	
TX Power	2-25 Watts (33-44 dBm)*
Output Impedance	50 Ohms
Occupied Bandwidth	12.5 kHz
Modulation	GMSK
RX Sensitivity	
With FEC	-105 dBm for 1E-6 BER typ.
Without FEC	-100 dBm for 1E-6 BER typ.
Worst Case RX Adjacent Channel**	1 st : 45 dB 3 rd : 50 dB 5 th : 60 dB
Spurious Rejection	60 dB
Blocking Rejection	70 dB
RX Intermod Rej	70 dB
Frequency Stability	1.0 ppm (-30C - +60C)
RX Noise Figure	< 7 dB

* 2 Watts max for FCC Part 90

** EIA/TIA-204 test method

Power Consumption	
Transmit	6 A at 13.8 VDC
Receive	300 mA at 13.8 VDC

For additional information, please visit

[HTTP://SUPPORTCENTRAL.GE.COM/PRODUCTS/SUP_PRODUCTS.ASP?PROD_ID=181796](http://supportcentral.ge.com/products/sup_products.asp?prod_id=181796)

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