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PLUS Radios

HT High Speed Ethernet 900 MHz Industrial Radio



HT-PE



HT-P

KEY FEATURES

Outstanding RF Performance: Maintains high receiver sensitivity and noise immunity even in harsh RF conditions

High Speed: Up to 867 kbps over-the-air throughput

Secure: FHSS technology and AES encryption prevent unauthorized access

Synthesized Waveform Transmit Data: Reduces out-of-band modulation products

Error Free Communications: 32 bit CRC with automatic retransmission

Versatile: Operates as a Gateway, Repeater, or End Point

Backward Compatible: 100% compatible with existing 900 MHz FreeWave HTPlus radios

Input Voltage Range: +6 to +30 VDC

UL Approved: Class 1 Division 2

OVERVIEW

The HT-PE and HT-P, high speed Ethernet radios, provide outstanding mission critical communications even in RF harsh environments. With two 10/100 Ethernet ports and two serial ports, the HT Ethernet radios easily interface with a broad range of in-field-devices - RTUs, PLCs and Controllers. Air link security has also been designed into the HT radios with AES encryption of data and a frequency hopping transceiver. These radios have a ruggedized enclosure and an industrial temperature range making them a perfect choice for industrial 900MHz data networks. HT Ethernet radios can operate as Gateways, Repeaters and End Points simplifying ordering, stocking and installation.

All radios are designed, manufactured and tested in Boulder, CO.

Specifications

MODEL	FORM FACTOR	OPTIONS
HT-PE	6.8 L x 3.8 W x 1.4 H (in)	Enclosed
HT-P	7 L x 3.25 W x 1.25 H (in)	Board Level

TECHNICAL SPECIFICATIONS

TRANSMITTER

Frequency Range	902 to 928 MHz (FHSS/FCC DTS)
Output Power	5 mW up to 870 mW
Data Link Range	15 miles, clear LOS, high speed
	30 miles, clear LOS, standard speed
Modulation	2 level GFSK
RF Data Rate	614 kbps standard speed
	867 kbps high speed
Occupied Bandwidth	611.2 kHz
Hopping Patterns	15 per band, 105 total, user-selectable
Hopping Channels	41
Frequency Zones	16 zones, 2-3 channels per zone

RECEIVER

Sensitivity	-102 dBm for BER 10^{-6} at 614 kbps
	-96 dBm for BER 10^{-6} at 867 kbps

DATA TRANSMISSION

Error Detection	32 bit CRC, retransmit on error
Data Security	AES 128 bit encryption
	FHSS technology
	RADIUS
Serial Interface	RS232/RS422/RS485, programmable
	(2) RJ-45 connectors
Ethernet Interface	802.3, IPv4, TCP, UDP, DHCP, ICMP, ARP,
	Multicast, TFTP, DNP3 over TCP, VLAN
	(2) 802.3u, Fast Ethernet, RJ-45

POWER REQUIREMENTS

Operating Voltage	+6 VDC to +30 VDC
Typical Power	Transmit: 6.6 W
	Receive: 1.7 W
	Idle: 0.8 W

GENERAL INFORMATION

Operating Temperature	-40°C to +75°C
Humidity	Up to 95% non-condensing
Dimensions	Board Level: 178 x 83 x 32 (mm)
	Enclosed: 173 x 97 x 36 (mm)
Weight	Board Level: 227 g
	Enclosed: 635 g
RF Connector	Board Level: SMA, Female
	Enclosed: TNC, Female
Certifications	FCC Part 15.247 / IC RSS-210
	UL Class 1, Division 2

APPLICATIONS



OIL & GAS | AGRICULTURE | UTILITIES | DEFENSE | SCADA | MINING | FLEET MANAGEMENT | MUNICIPAL | ENTERPRISE

CONTACT US

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For more information, visit www.freewave.com

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