Product Brief

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Agility Military Radio

Description:

The Agility Military Radio (AMR) includes 5 models that support frequencies from 138 to 930 MHz. It can operate as a fixed TV band Device (TVBD) under Part 15, Subpart H of the FCC or support channels as small as 6.25 kHz. A wide variety of applications are supported including Tactical Engagement Simulation Systems (TESS), Force On Force, Force ON Target, training and Land Navigation. The radio may be used to create Point-to-Point (PTP), Point-to-Mulitipoint (PTM) or simplex (one-way) networks with support for any type of Serial and IP traffic including voice over IP and low-resolution video. The Hub radios in an AMR network can operate with an omnidirectional or sector antenna depending on the coverage requirements. The AMR will operate with the FCC-approved database service provided by Spectrum Bridge, Inc using an optional client provided in the AMR software.

Features:

- Agile RF Modules
    - 138 to 210 MHz
    - 210 to 320 MHz
    - 320 to 470 MHz
    - 450 to 698 MHz
    - 660 to 930 MHz
- Data Rates from 2.4 kb/s to 3.1 Mb/s
- 6.25 to 175 kHz and 6 MHz Channel Sizes
- Extensive power management for long battery life
- Optional 911 Emergency button support
- Position reporting (time or travel)
- Optional wireless link encryption
- Up to 37 dBm RF transmit power
- Automatic Transmit Power Control (ATPC)
- FCC Part 15 and 90 compliant*
- Serial, Ethernet and USB User Ports
- Operates in the "White Space" spectrum
- ETSI Compliant*

Agility Radio Series

The Ethernet port functions as a bridge for IP subnets via the wireless link. The advanced Media Access Controller (MAC) supports contention, polled and reserved access for minimizing delay and maximizing upstream throughput. Secure local network management is provided through an embedded web server. Remote management is supported over-the-air with the KTS provided Agility Radio Element Manager.

Specifications:

Electrical

RF Module frequency bands (factory selectable)	
A	138 to 210 MHz
B	210 to 320 MHz
C	320 to 470 MHz
D	450 to 698 MHz
E	660 to 930 MHz
RF Transmit Power	10 to 37 dBm with ATPC
Noise Figure	4 dB
Spurious & Harmonic Emissions	FCC Part 15 & 90, ETSI 300-113-01*
Data Rates	2.4 to 250 kb/s, 2 or 3.1 Mb/s (TVBD)
Modulation	2-FSK,4-FSK, SOQPSK
Channel Bandwidth	6.25 to 175 kHz, 6 MHz (TVBD)
Frequency Selection	6.25 or 100 kHz steps
Selectivity (Narrowband)	>80 dB
Operating mode	Half-duplex or simplex
User Ports	Serial, Ethernet and USB

Mechanical

Dimensions (not incl connectors)	3.15" x 6" x 1.5"
Enclosure material	AL Extrusion, TCP coating
Weight (radio only)	1.2 lb
Mounting Bracket (Optional)	DIN Rail or Wall, available with optional fan
Connectors	
Antenna	RP-SMA (F)
User Ports and Power	2, M12, 12 contacts each, Male and Female

Environmental

Operating Temperature Range	-30 to 60^0 C
Water and Dust	IP 67

Power

Input Voltage	9-24 VDC
Current	0.5A (RX), 2.5 A (TX), 0.1 A (Idle)

*Specifications subject to change without notice   *FCC and ETSI Approval pending*