SPEARLink™

NEXT-GENERATION SOFTWARE-DEFINED MESH NETWORKING RADIO

ANDRO

Embedded software-defined radio based design configurable to customer's unique requirements

Designed for long-term outdoor deployment and wireless data collection in any remote test and evaluation (T&E) ranges or similar applications.

Developed by ANDRO's Marconi-Rosenblatt Innovation Lab, SPEARLink™ is the first of its kind patented energy-aware mesh networking solution designed using embedded software-defined radio. A scalable solution that allows you to add and remove radios to the network with ease. SPEARLink™ mesh network supports AES encrypted information exchange.

Ruggedized and weatherized design built for outdoor deployment. The product comes with a Graphical User Interface (GUI) that provides a single point of remote monitoring and control of the units. It can be used to monitor location, check the health status of the radios, battery levels, and change parameters like data rate, transmission power remotely.

GENERAL FEATURES

Waveform: 802.11 b PHY
Supported Data rates: 1, 2, and 5.5 Mbps.
Channel Bandwidth: 20 MHz

Frequency Range: 400 MHz-450 MHz
Peak Tx Power: 3.5 W

Range of Attenuation:
100 mW to 3.5 W in 1 dB steps

Encryption: AES 128

Patented Energy-aware
Dynamic Routing

Power Options

Battery:

AN/PRC-148 compatible

DC Power:

12V - 28V , 20 W

PoE: 802.3at PoE+

Mechanical Specs

Dimension:

26cm x 17cm x 4.5cm

Weight:

1.56 Kg (without battery)

Ambient Temperature:

-40 deg C to +60 deg C

Designed for IP67 (not certified)

Interfaces & Others

RF interface:

Main TNC, SMA for GPS

Interface:

Ethernet

Status indicators:

3 LED (Battery, Status, and Network)

Control Interface:

ON/OFF switch

Locking Power Switch

Contact ANDRO below regarding pre-order sales

Specifications subject to change without notice