Huntsman® Secure Network Radio LX4-SAB

Secure, Portable, Wireless Mesh Network Radio — reliable in extreme environments and weather conditions

Huntsman® Secure Network Radio Key Features

• National Security Agency-certified Suite B Cryptographic High Value Product for Secret and Below applications
• Multiple radio frequencies for anti-jamming, high reliability, redundancy and diversity, and load-balancing
• Rajant’s InstaMesh® networking software, enabling the network to quickly adapt to rapidly deployed and constantly moving network elements
• Dust-tight and water-resistant enclosures that are able to withstand hostile environments with conditions such as temperature extremes, wind, rain, snow, dust, and vibrations
• Scalability to hundreds of mobile high-bandwidth nodes
• Fast and easy deployment, especially important for establishing ad-hoc networks
• Fully redundant, self-healing mesh technology
• BC|Commander application for Windows or Linux for easy configuration and continuous remote monitoring of Huntsman® Secure Network Radio and mesh network link quality
Performance Specifications:
• Throughput: Up to 54 Mbps
• Latency: Less than 1 ms per hop
• Range: up to 10+ km omnidirectional (Line of Site [LOS])

Wireless:
• Four transceivers per HSNR.
  – 1x 1.3 GHz (1350 – 1390 MHz)
    – 29 dBm (Max RF TX Power)
  – 3x 4.8 GHz (4800 – 4940 MHz)
    – 28 dBm (Max RF TX Power)

Interfaces:
• Two 10/100 Mbps Ethernet interfaces.
• Two USB and one RS-422 interfaces for application specific uses (e.g., GPS integration, voice communications).
• One DS-101 key fill interface.
• LEDs for mesh network status, key status, and application specific uses.
• Four N-Type RF ports

Networking:
• VLAN tagging and trunking support.
• VLAN priority and QoS Support.
• Black side DHCP support.

Security:
• NSA-certified Suite B encryption
• Access control lists (black list & white list)
• Node-to-node authentication
• Per hop verification of packets within mesh

Physical:
• Dimensions: 8.43 in x 7.78 in x 2.40 in
• Weight: 8 lbs., 10 oz.

Power:
• Input Power:
  – 18-75VDC
  – AC power supply for 100-240, 50/60Hz VAC operation
  – 40 W max power consumption

Environment:
• Operating/Storage Temperature: -40°C to +80°C (-40°F to +176°F)
• Humidity: 95% (non-condensing)
• Designed to meet MIL-STD 810G specifications for environmental conditions
• Sealed, ruggedized enclosure allows for radio deployment in all types of weather – hot/cold, wet/dry, humid, etc.

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