ULTRA | Intelligence & Communications

WiFiProtect
Single-Radio Secure Wireless Mesh Platform

Overview

Ultra Cyber's WiFiProtect products provide seamless voice, video and data secure wireless communications in the most challenging environments. The freedom from geographical constraints makes the portable device ideal for military or defense environments such as operating facilities, base camps and field units. All of these require highly secure communications but do not readily accommodate trenching for wired solutions. Using the latest 802.11n wireless technologies to achieve link rates of up to 300 Mbps, the WiFiProtect Access Point is a self-forming, self-healing wireless mesh solution that meets the growing demand for streaming media and advanced applications.

Wireless Features
- Multiple Wi-Fi RFs: 802.11a/b/g/n
- Operation modes:
  - Access point
  - Mesh Point
  - Mesh Access Point
  - Client
- Self-forming, self-healing mesh network 802.11s or RSTP

Certifications
- NIAP Common Criteria certified
- FIPS 140-2 validated
- WiFi Alliance certificate
- MIL-STD-810E shock Method 516.4, Proc IFunctional Shock
- MIL-STD-167 vibration
- DoD PKI
- EMI: FCC Class A

Security
- FIPS - 802.11i PSK and 802.1x
- Enable/disable broadcast SSID
- MAC address filtering
- NSA Suite B upgradeable

Mechanical
- 73.5mm x 102.5mm x 126mm

Environmental
- Operating temperature: -40 °C to +75° C
- Storage temperature: -40° C to +80° C

Interfaces
- One 10/100/1000 Base-T WAN (UPLINK) Ethernet port
- One 10/100/1000 Base-T LAN (LOCAL) Ethernet port
- Capable of 3x3 MIMO operation
- RS-232 / 422 / 485 w/DB-9 connector (on optional wiring PCBA)

Power
- +5 to +12 VDC
- Power: 7.5W typical, 10W max

Performance
- Aggregate 802.11n throughput: 300 Mbps max

LED Indicators
- Power
- WAN - Ethernet uplink indicator
- WLAN - AP activity/link indicato

Device Management
- Web server, HTTPS
- SNMP v1, v2, v3 r

Options
- Power Options
  - Table top power supply 5 to 12 VDC
  - DIN rail mounted power supply
  - 5 to 12 VDC
  - Pigtail - 1 meter length - with 3e-523NF power connector attached
  - Wiring PCBA
- Antenna Options
  - RP-SMA antenna - quantity three
  - DIN rail mountable plate to take 3 N connectors - with RP-SMA to N bulkhead cables
- Lightning arrestors
- CAT 6 Ethernet cables
- Serial cable RS-232

Contact us or schedule a demo:

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