

AirGuard Wireless Data Point

3e-523-3



3eTI's AirGuard® wireless data point enables economical wireless interfacing of various devices supporting Ethernet or serial interfaces. With security-enhanced IEEE 802.11i wireless technology, costly installation cabling is eliminated. Through a wireless data point, any device can communicate to the data network wirelessly utilizing a 3eTI secure access point for connection to the wired network system. This system is transparent to the application software and provides network data security at a level appropriate for use in security-sensitive applications.

The data point is packaged in an outdoor-ready IP67 / NEMA 4 package. The IP67 packaging of the data point is ruggedized for demanding environments, and the operational temperature range is -40°C to 72°C.

The data point provides highly flexible integration for rapid deployment and time to market. The compact 9 cm x 12 cm x 6 cm (enclosure dimensions without connectors or antennas) form factor of the 3e-523-3 allows for easy installation in small spaces. There is also a DIN rail accessory available.

The data point provides connection ports to communicate with either Ethernet or serial data device signals. The low voltage DC power supply requirement enables ease of use in battery, solar, or vehicle installations.

As part of an application, the data point wireless data point provides a direct connection to the device using any of several communications interfaces. One Ethernet RJ-45 connector and a DB-15 connector supporting RS-232, RS-422, or RS-485 are provided. The data points communicate with 3eTI wireless access points to form a secure wireless network for the device data.

Examples of applications that can readily benefit from the wireless link to your WiFi infrastructure include: outdoor IP cameras with PTZ control, RFID readers, industrial or medical equipment, or sensor networks.

With the high data rates of up to 54 Mbps, the AirGuard wireless data point is a unique and cost effective solution to your data interfacing needs in applications where severe environments, flexibility, and avoidance of expensive conduit and cabling are a consideration.

BENEFITS

- Reduces deployment costs and time
- Supports multiple wireless data points on highly secure WLAN
- Integrates with multiple device technologies through flexible interface
- Flexible: system additions or modifications easily accomplished with wireless connections
- Rapid time to market with embedded FIPS 140-2 validated module
- VLAN in AP mode

FEATURES

- Stand-alone AP bridge, client, and mesh modes
- Data & reports accessible via wireless LAN
- FIPS 140-2 validated crypto modules
- IEEE 802.11a/b/g
- Outdoor-ready package meeting IP64/NEMA4
- Designed as OEM Model



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Ultra
ELECTRONICS

SPECIFICATIONS

HARDWARE

ELECTRIC INTERFACE

- 5 volts DC power supply @ 3 Amps

INTERFACE COMMUNICATIONS

- Ethernet 10/100 baseT with RJ-45 jack
- RS-232 / 422 / 485 with DB-15 connector

PHYSICAL CHARACTERISTICS

- Rating — NEMA 4, IP67
- Size:
 - 90 mm x 120 mm x 60 mm (without connectors)
 - 260 mm x 200 mm x 60 mm (with connectors)

SOFTWARE

DEVICE MANAGEMENT

- Web Server / HTTPS
- SNMP Agent
- SNMP Trap

TOOLS AND UTILITIES

- Ping utility
- Trace route utility
- Firmware upgrade via web
- Reboot device
- Factory default
- NTP (Network Time Protocol)

WIRELESS FEATURES

- Multiple RFs
 - 802.11a/b/g for AP & bridge
- Operation mode (user configurable)
 - Access Point
 - Bridge
 - Client (Client-Bridge)
 - Mesh
- Self-forming, self-configuring, self-organizing mesh
- Security:
 - WPA2 / 802.11i (AES-CCMP)
 - FIPS validated
 - MAC address filtering
 - AES 128, AES 192, AES 256
 - Email notification

ENVIRONMENTAL

- Operating Temperature: -40° ~ +72° C standard;
- Storage Temperature: 40° ~ +80° C

AVAILABLE ACCESSORIES

- Indoor Accessory Kit containing:
 - R-SMA antennas (2x)
 - DB-15 connector housing with power supply
- Outdoor Accessory Kit containing:
 - Mounting Plate and Pole
 - Mounting Rear Plate
 - Outdoor omni-directional antennas (2x)
 - Right angle R-SMA to bulkhead
 - N cable assemblies
 - Lightning arrestors
 - DB-15 connector housing
 - Din rail kit

ABOUT 3eTI

3e Technologies International (3eTI), an Ultra Electronics company, is a leading provider of highly secure wireless networks that enable critical systems security, infrastructure security and industrial automation for the military, government, industrial and utility markets. Its product portfolio includes proven and robust secure wireless mesh networks, sensor networks, cyber security, and perimeter security solutions, deployed for a range of applications, including military base security, onboard military ship communications, rapidly deployable public safety communications, and advanced metering infrastructure for SmartGrid programs. 3eTI's platforms are approved for use by the most stringent and demanding customers: the U.S. military.



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