9160 G2 Wireless Gateway

RoHS✓

Next Generation Freedom

When you need to instantly move information over a broad area, you need the right radio backbone to meet your needs. The 9160 G2 Wireless Gateway enables you to mix and match RF technologies to best suit your requirements – 802.11b/g for data collection applications and 802.11a for high bandwidth applications. The 9160 G2 also delivers robust security capabilities, with the ability to scale from basic WEP all the way up to 802.11i with AES encryption. With support for dual 802.11 radios the 9160 G2 allows for a range of wireless applications and wider wireless network coverage.

ADVANTAGES

- **Flexible Radio Options:** The 9160 G2 is a dual radio, 2.4 and 5Ghz multi-band access point supporting 802.11a/b/g radio standards enabling a mix and match of 802.11 technologies. The 9160 G2 also supports Wireless Distribution System (WDS) allowing for a completely wireless infrastructure.
- **Robust Security:** Security is scaleable from WEP128 bit encryption though WPA 1 and WPA 2 (802.11i) security with AES encryption.
- **Administration Ease:** Enhanced real-time diagnostics and configurations via SNMP, HTTP, Telnet or serial console. Security, configuration profiles and software upgrades are handled centrally and remotely with Psion Teklogix' MapRF wireless network management system.
- **Cost Effective:** Powered by either an on-board industrial AC Power Supply or 802.3af compliant Power over Ethernet for cost effective installations.
- **Rugged Design:** Industrial housing makes the 9160 G2 Wireless Gateway suitable for industrial environments

Wi Fi™
The Standard for Wireless Fidelity.

PSION TEKLOGIX
information in motion

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Specifications

9160 Front View

9160 Connectors

9160 Back View

PROCESSOR AND MEMORY

- Microprocessor:
  Intel IXP420 processor at 266MHz
- Memory:
  16MB Flash
  32MB SDRAM

WIRELESS COMMUNICATIONS

- Standard Slot 1 Radio – 802.11b/g Mini-PCI
- Optional Slot 2 Radio – 802.11a/b/g Mini-PCI

ANTENNA OPTIONS

- The 9160 G2 supports a wide variety of indoor and outdoor 2.4 and 5GHz omni-directional, directional and sector panel antenna for coverage applications
- The 9160 G2 also supports antenna for bridging (WDS) applications
- Antenna diversity is supported for slot 1 and slot 2 radios.

SECURITY

- 802.1x Compliant
- MAC Filtering
- WPA 1 (TKIP encryption)
- WPA 2 (802.11i, AES encryption)
- Inhibit/Ignore SSID Broadcast
- User-based access control via embedded Radius authentication server (PEAP with 8 AP's or less)

NETWORK INTERFACE

- 10/100 Base-T with auto-negotiation, half and full duplex

DIAGNOSTIC/CONFIGURATION TERMINAL INTERFACE

- RS232 port for debug and diagnostics supporting configuration and firmware update
- SNMP support, (compatible with MapRF)
- Telnet to Console
- HTTP Web Browser Management Interface

ADVANCED FEATURES

- Wireless Distribution System (WDS)
- Load balancing
- Multiple SSIDs/BSSIDs, Virtual Wireless Networks (VWNs)

SIZE AND WEIGHT

- Dimensions: 36.3cm/14.3" Wide x 26.2cm/10.3" High x 7.4cm/2.9" deep
  Weight: 2.9kg/6.5 lbs

ENVIRONMENTAL

- Storage Temperature: 0°C to +70°C (32°F to 158°F)
- Operating Temperature: 0°C to +55°C (32°F to 151°F)
- Operating Relative Humidity: 10% to 90%
- Dust and Moisture: IP42
- Vibration: EH0002 (shipping vibration only)
- Reliability: MTBF 25,000 Hours (MIL-HDBK-217F)

VISUAL INDICATORS

- LED 1 - on solid when Ethernet link present
- LED 2 - blinks for rx/tx Ethernet traffic
- LED 3 - blinks for rx/tx radio 1 traffic
- LED 4 - blinks for rx/tx radio 2 traffic
- LED 5 - always off (unused at this time)
- LED 6 - on solid when power present

POWER

- Input Voltage: 100 – 240VAC, 50/60Hz, 1A
- Power Over Ethernet (POE) – 802.3af compliant, 48VDC nominal

APPROVALS

- USA
  FCC part 15, subpart B, class B (unintentional radiated emission)
  UL60950-1, 2003 Bi-Nat (electrical safety)
  *Note: NRTL/C done by CSA covers UL 60950-1 bi-national standards
- Canada
  ICES-003 / CSA C108.8-M1983 (unintentional radiated emission)
  CSA 60950-1 CSA-C22.2 No. 60950-1-03 (electrical safety)
  * Note: FCC part 15, subpart B covers ICES-003 / CSA C108.8-M1983
- European CE Mark
  EMC Directive: 89/336/EEC
  R&TTE Directive: 1999/5/EEC
  Low Voltage Directive: 73/23/EEC

INDUSTRIAL APPLICATIONS

- Indoor - suitable for rugged warehouse and manufacturing applications with any type of coverage pattern.
- Refrigerated - dual radio operation and antenna splitting allows for coverage of isolated refrigerated sections from a single access point.
- Outdoor - a variety of high gain antenna and wired or wireless (WDS) backhaul options make the 9160 G2 a suitable choice for outdoor port and yard applications.
- Multiple SSIDs - divide the WLAN into virtual wireless LANs with VLAN support for different applications or user types.

* Specifications subject to change without notice.