



## Next Generation Freedom.

When you need to instantly move information over a broad area, you need the right wireless infrastructure 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, 802.11a for high bandwidth applications and narrowband for larger areas requiring extensive coverage. 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.



### Features & Benefits

#### Flexible Radio Options:

The 9160 G2 is a dual radio, Access Point supporting an 802.11b/g or narrowband radio as a standard, with an option of 802.11a/b/g radio. The 9160 G2 also supports Wireless Distribution System (WDS) allowing for a completely wireless infrastructure.

#### Robust Security

Security is scalable from WEP 128 bit encryption through 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.

## Specifications\*

### PROCESSOR AND MEMORY

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

### WIRELESS COMMUNICATIONS

- Standard Radio - 802.11 b/g or narrowband
- Optional Radio - 802.11 a/b/g

### ANTENNA OPTIONS

- The 9160 G2 supports a wide variety of indoor and outdoor 2.4 and 5GHz omni-directional, directional and sector panel antennae as well as a variety of narrowband antennae for coverage applications
- The 9160 G2 supports all standard narrowband antennae
- The 9160 G2 also supports antennae for bridging (WDS) applications
- Antennae diversity is supported for 802.11 radios

### SECURITY

- 802.1x Authentication
- 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 APIs or less)

### NETWORK INTERFACE

- 10/100 Base-T with auto-negotiation, half and full duplex
- 100Base-FX Fiber Optic Ethernet Port

### 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)
- Support of 802.1Q protocol
- Mini-controller capabilities for thin client devices featuring ANSI, 5250 and 3274 emulations

### 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)  
UL601950, 2000 Bi-Nat (electrical safety)  
\* Note: NRTL/C done by CSA covers UL 1950 bi-national standards
- Canada  
ICES-003 / CSA C108.8-M1983 (unintentional radiated emission)  
CSA 950 CSA-C22.2 No. 950-M98 (electrical safety)  
\* Note: FCC part 15, subpart B covers ICES-003 / CSA C108.8-M1983
- European CE Mark  
73/23/EEC Low Voltage Directive  
TUV & CB EN 60950:1992+A1+A2+A3+A4+A11 (electrical safety)  
89/336/EEC EMC Directive:  
EN 50081-2: 1998 Generic Emission Standard - Industrial Environment  
EN 55022 based on CISPR 22, class B (Information Technology Equipment)  
EN 50082-1: 1997 Generic Immunity Standard – Industrial Environment  
EN 61000-4-2 ESD  
EN 61000-4-3 Radiated RF Immunity  
EN 61000-4-4 Electrical Fast Transients  
EN 61000-4-5 Surge withstand

### 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.



9160 G2 Front View



9160 G2 Connectors



9160 G2 Back View

Product is ROHS Compliant

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\*Specifications are subject to change without notice.