

# **Product Bulletin**

### **PB00149**

# GarrettCom Magnum DX940

Industrial Router with Cellular, T1/E1 or DDS WAN interface and configurable with six Ethernet ports and four serial ports.



The DX940 Provides a
Secure and Reliable Way to
Provide Connectivity Over a
Cellular Network to Utility
Substations, Roadside Traffic
Controls, Energy Generation
Facilities, Transportation
Depots and Other Locations
Where Cellular Signals are
Readily Available.

#### **Features**

- Configurable network Interfaces of 4 types:
  - Cellular Wireless
  - Ethernet ports
  - T1/E1 or DDS WAN
  - Serial RS232/RS485
- Substation hardened, -40° to +85° C, no fans
- Modbus TCP ASCII/RTU internetworking
- Cyber security: IPsec, VPN, SSL and firewall
- Panel, DIN-Rail or rack mounting

# Secure and Reliable

High speed data access over cellular communications is a new choice for reaching the local networks in remote industrial facilities. This cellular technology is used to transfer data in the Magnum DX940 Industrial Router.

The Cellular WAN interface in the DX940 provides a secure and reliable way to provide connectivity over a cellular network to utility substations, roadside traffic controls, energy generation locations, transportation depots, and other locations where cellular signals are readily available.

The Magnum DX940 uses the proven 3G EVDO REV A, EVDO, CDMA technology for cellular access. 3G cellular infrastructure sends data on a public network. Using the VPN capabilities in the DX940's software allows for secure, NERC-CIP-compliant data transfer on a public network.

#### **Secure and Reliable**

Besides a cellular WAN interface, the DX940 can be configured with six Ethernet ports, and four serial ports. Ethernet port options include Gb and 100Mb copper and fiber. In addition to the celllular port, a WAN port can be configured for T1/E1 or DDS circuits. The unit supports T1 to cellular fall back for WAN redundancy. The DX940 is purpose-built to be deployed and located in harsh environments.

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## GarrettCom Magnum DX940 - Configurable Router with Cellular

#### **Secure Management Software**

The Magnum DX940 includes MNS-DX software for the necessary handshakes and authentications which are required for configuring cellular access. MNS-DX also includes IP routing, Ethernet switching, Serial-to-IP terminal services, and network security features. With the use of MNS-DX, the Magnum DX940 router can be easily installed and be up and running in a couple of hours compared to days or weeks for setting up leased line or dial-up connections.

Extra security features such as IPSec/VPN (including GRE tunnels for VPN), stateful firewall, RADIUS, syslog, Secure Seal SSL, SSH port forwarding and other security capabilities can be added via an MNS-DX-SECURE license key.

MNS-DX-SECURE also provides IP firewall features including address/port inspection/ filtering, VPN connectivity over IPsec with strong 3DES, AES encryption, and both shared key (PSK) and X.509 certificates. Advanced routing capability for OSPF and BGP networks is enabled using the MNS-DX-ADVAR software license key.

Optional serial ports enable Serial-IP terminal services via RS232, RS485, and RS422 serial interfaces as well as protocols such as DNP, telnet, and Modbus, including Modbus-ASCII/RTU to Modbus-TCP interworking. MNS-DX-SECURE also enables serial devices to transmit data securely using Serial-SSL connections.

#### **Rugged Design**

The DX940 operates at -40°C to +85°C without open vent holes or fans, and meets IP52 rating.

Hard metal packaging is standard and conformal coating for protection against moisture and corrosion is also available.

## **Product Specifications**

Туре	DX940		
Product Description	DX940 base unit with configurable four 100Mb SFP Ethernet or 10/100 RJ45 ports. Other additions: 4 serial, 2 gig fiber/copper, choice of two WAN access ports (Cellular, T1/E1, DDS WAN). Includes IP routing, Ethernet switching and secure management. MNS-DX software license included. Panel mount. Other mounting options and conformal coating are also available.		
Specifications			
Serial Protocols	Async to TCP/IP – including Modbus gateway for connectivity to serial Modbus devices and to other Modbus Ethernet devices; TCP/IP to serial/reverse terminal server, Serial Multipoint & Multimaster Topologies; PPP with authentication.		
Performance			
Serial DB9 Ports	RS232/RS485 software selectable DB9 interface. Serial data rate from 300 bps to 230.4 kbps. Data length - 1-32 bits.		
RJ-45 Ports	100 or 10 Mb speed, full- or half-duplex mode, per port, individually determined. 10/100 auto-negotiating & auto-cross		
Fiber Ports (multi-mode and single-mode)	Configurable in modules. at 2/module, or SFF (Small Form Factor) for high fiber port density, 4 per module. Each FDX or HDX, default is FDX mode.		
Gigabit Ports, 1000 Mb	Configurable, std. See configuration guide for selection of modules		
Cellular WAN Ports	3G EVDO REV A, EVDO, CDMA,; Frequency – 1900MHz/800 MHz; supports antenna diversity. Cellular Antennas - optional high gain external antennas available. Used when the cellular signal is weak or not available due to enclosed areas.		
WAN Ports	DDS: 56/64 kbps OR T1/E1: 1.544 Mbps / 2.048 Mbps G.703; Full rate and fractional (N*56/64kbps); Integral CSU/DSU		
Network Standards	Network Standards		
Auto-Negotiation on TP	IEEE 802.3z, 802.3ab, 802.1p: 100BASE-TX, -FX, 1000BASE-SX, -LX		
Flow Control & Prioritization	TP, IEEE 802.3u		
VLANs	Compliant		
Spanning Tree	Compliant		
DiffServ	IEEE 802.1p: DiffServ, traffic prioritization for routed IP flows/ports		

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# **Product Specifications** (continued)

analyzer to assist with troubleshooting.  Comprehensive statistics, SNMP MIB II and SNMP Traps, Routing Information, DHCP, ARP and other tables.  Deparating Environment  Deparating Temperature  IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IUL 60950 "Component Parts" temperature rating: 140°F (60°C)  Storage Temperature  -40° to 185°F (-40° to 85°C)  Ambient Relative Humidity  5% to 95% (non-condensing)  Wittude  -200 to 13000ft (-60 to 4000m)  Request quote  Mechanical  Inclosure  Rugged high-strength sheet metal  Cooling Method  Convection.  Dimensions  9.5° W x 9.0° D x 1.75° H (24.13 cm x 22.86cm x 4.45 cm); 1 RU  Weight  5 lbs (2.3 kg)  Dover Supply Options  High Voltage  90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Serial LED Indicators Per BJ-9 or RJ45 Port  One LED/port indicating active connection.  Sthermet LED Indicators Per BJ45 or Fiber Port  Agency Standards Approval and Compliance  IT., UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warrantly  Narrantly  Narranty	Software		
Web-based Graphical User Interface (GUI) or CLI access remote SSH or TELNET connection. Powerful built-in protocol analyzer to assist with troubleshooting.  Comprehensive statistics, SNMP MIB II and SNMP Traps, Routing Information, DHCP, ARP and other tables.  Derating Environment  Derating Temperature  IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  Remperature Rating components)  UL 60950 "Component Parts" temperature rating: 140°F (60°C)  Storage Temperature  -40° to 185°F (-40° to 85°C)  Ambient Relative Humidity  5% to 95% (non-condensing)  Withtude  -200 to 13000ft (-60 to 4000m)  Request quote  Mechanical  Findosure  Rugged high-strength sheet metal  Mounting  19" ETSI and 23" Rack, Panel Mount and DIN-Rail  Conliging Method  Convection.  Dimensions  9.5° W x 9.0" D x 1.75" H (24.13 cm x 22.86cm x 4.45 cm); 1 RU  Weight  5 lbs (2.3 kg)  Power Supply Options  Willing Options  Willi	MNS-DX and MNS-DX-SECURE license	d software	
Web-based Graphical User Interface (GUI) or CLI access remote SSH or TELNET connection. Powerful built-in protocol analyzer to assist with troubleshooting.  Comprehensive statistics, SNMP MIB II and SNMP Traps, Routing Information, DHCP, ARP and other tables.  Derating Environment  Derating Temperature  IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEC 60069 Operating temp. per "Type Test" -40° to 185°F (-40° to 18	Management & Diagnostics		
Operating Environment  Operating Temperature  IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)  IEMperature Rating (components)  UL 60950 "Component Parts" temperature rating: 140°F (60°C)  Storage Temperature  -40° to 185°F (-40°to 85°C)  Ambient Relative Humidity  5% to 95% (non-condensing)  Mittide  -200 to 13000ft (-60 to 4000m)  Request quote  Mechanical  Enclosure  Rugged high-strength sheet metal  Mounting  19" ETSI and 23" Rack, Panel Mount and DIN-Rail  Cooling Method  Convection.  Dimensions  9.5" W x 9.0" D x 1.75" H (24.13 cm x 22.86cm x 4.45 cm); 1 RU  Weight  5 lbs (2.3 kg)  Rower Supply Options  Bigly Voltage  90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Serial LED Indicators Per DB-9 or RJ45 Port  Direct LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  JA  Agency Standards Approval and Compiliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty  Warranty	Ease-of-Use		
IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)	Other	Comprehensive statistics, SNMP MIB II and SNMP Traps, Routing Information, DHCP, ARP and other tables.	
The presture Rating (components)  UL 60950 "Component Parts" temperature rating: 140°F (60°C)  Storage Temperature  -40° to 185°F (-40°to 85°C)  Ambient Relative Humidity  5% to 95% (non-condensing)  Attitude  -200 to 13000ft (-60 to 4000m)  Request quote  Mechanical  Recipional  Request quote  Mounting  19" ETSI and 23" Rack, Panel Mount and DIN-Rail  Cooling Method  Convection.  Power Supply Options  High Voltage  90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Power Supply Options  High Voltage  24-48V DC, 0.75A, 18 watts  Perial LED Indicators Per DB-9 or RJ45 Port  De LED/port indicating active connection.  High Power Supply Indicators Per RJ45 or Fiber Port  JA  One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Regnery Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	Operating Environment		
Ambient Relative Humidity 5% to 95% (non-condensing) Autitude -200 to 13000ft (-60 to 4000m) Ambient Relative Humidity protection) Request quote  Mechanical Enclosure Rugged high-strength sheet metal  Mounting 19" ETSI and 23" Rack, Panel Mount and DIN-Rail  Cooling Method Convection.  Dimensions 9.5" W x 9.0" D x 1.75" H (24.13 cm x 22.86cm x 4.45 cm); 1 RU  Weight 5 lbs (2.3 kg)  Power Supply Options  High Voltage 90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Portal LED Indicators Per DB-9 or RJ45 Port  Correction.  Cherrial LED Indicators Per RJ45 or Fiber Port  L/A One LED/port indicating active connection.  Characterist Correction and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	Operating Temperature	IEC 60068 Operating temp. per "Type Test" -40° to 185°F (-40° to 85°C)	
Ambient Relative Humidity 5% to 95% (non-condensing) Altitude -200 to 13000ft (-60 to 4000m)  Request quote  Mechanical Enclosure Rugged high-strength sheet metal  Mounting 19" ETSI and 23" Rack, Panel Mount and DIN-Rail  Cooling Method Convection.  Dimensions 9.5" W x 9.0" D x 1.75" H (24.13 cm x 22.86cm x 4.45 cm); 1 RU  Weight 5 lbs (2.3 kg)  Power Supply Options  High Voltage 90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Corrial LED Indicators Per DB-9 or RJ45 Port  Die LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  L/A One LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  L/A One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	Temperature Rating (components)	UL 60950 "Component Parts" temperature rating: 140°F (60°C)	
Attitude	Storage Temperature	-40° to 185°F (-40°to 85°C)	
Conformal Coating (humidity protection)  Request quote  Mechanical  Inclosure Rugged high-strength sheet metal  Mounting 19" ETSI and 23" Rack, Panel Mount and DIN-Rail  Cooling Method Convection.  Dimensions 9.5" W x 9.0" D x 1.75" H (24.13 cm x 22.86cm x 4.45 cm); 1 RU  Power Supply Options  High Voltage 90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Serial LED Indicators Per DB-9 or RJ45 Port  Che LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  JA One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	Ambient Relative Humidity	5% to 95% (non-condensing)	
Mounting 19" ETSI and 23" Rack, Panel Mount and DIN-Rail Cooling Method Convection. Dimensions 9.5" W x 9.0" D x 1.75" H (24.13 cm x 22.86cm x 4.45 cm); 1 RU  Weight 5 lbs (2.3 kg)  Power Supply Options High Voltage 90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Serial LED Indicators Per DB-9 or RJ45 Port  Dne LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  JA One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	Altitude	-200 to 13000ft (-60 to 4000m)	
Rugged high-strength sheet metal  Mounting 19" ETSI and 23" Rack, Panel Mount and DIN-Rail  Cooling Method Convection.  9.5" W x 9.0" D x 1.75" H (24.13 cm x 22.86cm x 4.45 cm); 1 RU  Neight 5 lbs (2.3 kg)  Cower Supply Options  High Voltage 90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Serial LED Indicators Per DB-9 or RJ45 Port  One LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  JA One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Narranty	Conformal Coating (humidity protection)	Request quote	
Mounting 19" ETSI and 23" Rack, Panel Mount and DIN-Rail Cooling Method Convection.  Dimensions 9.5" W x 9.0" D x 1.75" H (24.13 cm x 22.86cm x 4.45 cm); 1 RU  Weight 5 lbs (2.3 kg)  Cower Supply Options  High Voltage 90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Low Voltage 24-48V DC, 0.75A, 18 watts  Serial LED Indicators Per DB-9 or RJ45 Port  Cone LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  JA One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV	Mechanical		
Cooling Method Convection.  9.5" W x 9.0" D x 1.75" H (24.13 cm x 22.86cm x 4.45 cm); 1 RU  Neight 5 lbs (2.3 kg)  Power Supply Options  ligh Voltage 90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Low Voltage 24-48V DC, 0.75A, 18 watts  Serial LED Indicators Per DB-9 or RJ45 Port  Die LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  JA One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV	Enclosure	Rugged high-strength sheet metal	
Second	Mounting	19" ETSI and 23" Rack, Panel Mount and DIN-Rail	
Neight 5 lbs (2.3 kg)  Ower Supply Options  digh Voltage 90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Low Voltage 24-48V DC, 0.75A, 18 watts  Serial LED Indicators Per DB-9 or RJ45 Port  One LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  L/A One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV	Cooling Method	Convection.	
Power Supply Options  Igh Voltage 90-250V AC or DC, 50-60Hz, 0.2A, 18 watts  Low Voltage 24-48V DC, 0.75A, 18 watts  Serial LED Indicators Per DB-9 or RJ45 Port  One LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  JA One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	Dimensions	9.5" W x 9.0" D x 1.75" H (24.13 cm x 22.86cm x 4.45 cm); 1 RU	
90-250V AC or DC, 50-60Hz, 0.2A, 18 watts	Weight	5 lbs (2.3 kg)	
24-48V DC, 0.75A, 18 watts  Serial LED Indicators Per DB-9 or RJ45 Port  One LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  JA One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	Power Supply Options		
Serial LED Indicators Per DB-9 or RJ45 Port  One LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  JA One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	High Voltage	90-250V AC or DC, 50-60Hz, 0.2A, 18 watts	
One LED/port indicating active connection.  Ethernet LED Indicators Per RJ45 or Fiber Port  L/A One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	Low Voltage	24-48V DC, 0.75A, 18 watts	
Cithernet LED Indicators Per RJ45 or Fiber Port  JA One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	Serial LED Indicators Per DB-9 or RJ	45 Port	
One LED/port indicating Link (solid green) and Activity (blinks to indicate activity).  Agency Standards Approval and Compliance  ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV  Warranty	One LED/port indicating active connection	ction.	
Agency Standards Approval and Compliance ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV Warranty		Fiber Port	
ETL, UL 60950, EN55022, EN55024 FCC Part 15   CE, EMC & ENV Narranty	L/A		
Varranty Control of the Control of t	Agency Standards Approval and Compliance		
	· · · · · · · · · · · · · · · · · · ·	FCC Part 15   CE, EMC & ENV	
Varranty Three Years	•		
	Warranty	Three Years	



### **DX940 Configuration Guide** DX940-4RJ-H DXC-2GCU DXC-DDS DXC-4SERIAL ΧХ **Product Family** DX940-4RJ-H = 90-250V DC/AC, 4x 10/100Mb RJ45 ports**DX940-4RJ-L** = 24-48V DC, 4x 10/100Mb RJ45 ports DX940-4FXSFP-H = 90-250V DC/AC, 4x 100Mb SFP portsDX940-4FXSFP-L = 24-48V DC, 4x 100Mb SFP ports Slot A (Gigabit Port) -DXC-2GCU = 2x 10/100/1000Mb RJ45 portsDXC-2GSFP = 2x 1000Mb SFP portsXXXX = Blank SlotSlot C (WAN Port) **DXC-CW** = 1 EVDO 3G cellular DXC-DDS = 1 DDS WAN portDXC-T1E1 = 1 T1/E1 WAN port **DXC-CW-DDS** = 1 EVDO 3G cellular + 1 DDS **DXC-CW-T1E1** = 1 EVDO 3G cellular + 1 E1/T1 XXX = Blank Slot Slot D (Serial Port) **DXC-4SERIAL** = 4 DB9-DTE Serial ports XX = Blank Slot Software -**DX** = Standard MNS-DX Software SE = MNS-DX Secure License AD = MNS-DX ADVAR License **SA** = Both Secure and ADVAR **Conformal Coating**

#### **DX940 Accessories**

**XX** = No Conformal Coating

**CONFORM05-CRM** = 5 mil, for moisture protect





Slot B	
Module No.	Description
ACC-DX-00-PM	Panel Mount bracket spares
ACC-DX-00-DM	Set of two DIN-Rail holders for vertical mount
ACC-DX-00-RM	Rack-mount brackets for 19" rack mounting
ACC-DX-00-RRM	Rack-mount brackets for 19" Reverse rack mounting
RMB-ETSI	Brackets to extend width from 19" to ETSI width; Prerequisite: ACC-DX-00-RM or ACC-DX-00-RRM
RMB-23W	Brackets to extend width from 19" to 23" Telco width; Prerequisite: ACCDX-00-RM or ACC-DX-00-RRM
DXCW-ANT-DIPOLE:	Omni-directional external dipole Antenna. This pair of "rabbitears" antennas has 3 db gain, and attaches to both of the cellular port connectors.
DXCW-ANT-DOME:	Omni-directional low profile external dome antenna. Has 3 db gain. Suitable for mounting on side of a building.
DXCW-ANT-POLE:	Omni-directional 3db external antenna. Suitable for mounting on a tower or on a pole

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