

Magnum DX940 Configuration Guide

Magnum DX940 Configurable Industrial Router, base unit with four RJ45 10/100 Ethernet ports or four 100Mb SFP Ethernet ports in slot B. Panel mounting standard. Two Alarm Contacts, software controlled. Wire speed filtering and forwarding across all Ethernet ports. MNS-DX software license included. Software includes IP Routing, per VLAN Routing, ICMP, ARP, Diffserv, Port Security, event logging and alarms, and more. Web-based GUI and CLI via Telnet.

Step 1. Choose DX940 Base Unit and Power Input

Model #	Base Unit, Description
DX940-4FXSFP-H	90-250V DC/AC power, slot B has 4 100Mb SFP ports
DX940-4FXSFP-L	24-48V DC power, slot B has 4 100Mb SFP ports
DX940-4RJ-H	90-250V DC/AC power, slot B has 4 10/100 RJ45 ports
DX940-4RJ-L	24-48V DC power, slot B has 4 10/100 RJ45 ports

Step 2. Optional: Choose Gigabit module for Slot A: (Gb is only available in slot A. Slot A may only be Gb).

Module Model #	Gigabit
<i>Gb Modules: Gb fixed copper OR SFP open transceiver slots</i>	
DXC-2GCU (fixed copper ports)	2 CU
DXC-2GSFP (SFP open ports)	2 SFP
<i>Gb SFP fiber optic transceivers</i>	
SFP-GTP	Gb Copper
SFP-SX	Gb SX, 850nm wavelength, 550 meters distance
SFP-ESX	Gb SX, 1310nm wavelength, 2km distance
SFP-LX10	Gb LX, 1310nm wavelength, 10km distance
SFP-LX25	Gb LX, 1310nm wavelength, 25km distance
SFP-ZX40	Gb ZX, 1550nm wavelength, 40km distance
SFP-ZX70	Gb ZX, 1550nm wavelength, 70km distance

Step 3. For Slot B, Only if using DX940-4FXSFP-H or -L Base Units, Choose SFP Transceivers

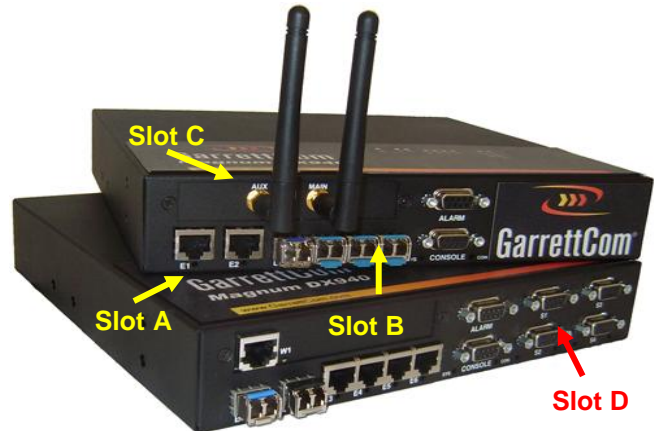
Model #	Description
SFP100P-RJ45	100Mb Copper SFP transceiver, 10/100 auto-negotiating
SFP100P-FXMM2	100FX Fiber Optic SFP transceiver, multi-mode, 2Km
SFP100P-FXSM20	100FX Fiber Optic SFP transceiver, single-mode, 20Km.
SFP100P-FXSM40	100FX Fiber Optic SFP transceiver, single-mode, 40Km.

Step 4. Optional, for Slot C, choose one WAN module

Model #	Description
DXC-CW	Configure 1 EVDO 3G cellular wireless port in Slot C
DXC-CW-T1E1	Configure 1 EVDO 3G cellular wireless plus 1 E1/T1 port in Slot C
DXC-CW-DDS	Configure 1 EVDO 3G cellular wireless plus 1 DDS port in Slot C
DXC-T1E1	Configure 1 T1/E1 WAN port with integral DSU/CSU in slot C
DXC-DDS	Configure DDS WAN connection in Slot C

Step 4b. Optional, if a wireless ("CW") module is chosen for Slot C, choose one of the following cellular antennas

Model #	Description
DXCW-ANT-DIPOLE	Omni-directional external dipole Antenna. This pair of "rabbit ears" 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.



Step 5. Optional, for Slot D, select the Serial module below

Model #	Description
DXC-4SERIAL	Four (4) Serial ports module. Each serial port is RS232 / RS485 / RS422, software selectable by the user at system initialization. MNS-DX licensed software includes support for Async to TCP/IP connectivity, Serial-IP terminal services, Serial Port VLANs and secure management of serial ports.

Step 6. Choose options and extras:

Model #	Description
MNS-DX-SECURE	Optional, licensed per router for extra security
MNS-DX-ADVANC	Optional, licensed per router for advanced routing
CONSOLE-CBLQD	Console attachment cable serial null Modem (aka X-modem) cable with DB9 connectors
CONSOLE-CBLQU	As above, but with a USB connector
CONFORM05-CRM	Conformal coating, 5 mil, for moisture protect
CONFORM08-CRM	Conformal coating, 8 mil, for corrosive environ.
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 brkts for 19" Reverse rack-mounting
RMB-ETSI	Brkts to extend width from 19" to ETSI width; Prerequisite: ACC-DX-00-RM or ACC-DX-00-RRM
RMB-23W	Brkts to extend width from 19" to 23" Telco width; Prerequisite: ACC-DX-00-RM or ACC-DX-00-RRM