

### Features

- Twelve-slot chassis allows interconnection of Ethernet network environments with a variety of 10Mb media types
- Repeater Port Modules (RPMs) provide media connections for BNC, Fiber (two types), Twisted Pair, AUI, and DTE; one port per slot, any combination
- Each Port Module (PM) supports a full length Ethernet segment and has easy-to-read LEDs
- Stacks with Magnum 3000 Hubs. Durable metal enclosure incorporates internal universal power supply
- Options include SNMP agent, -48VDC, 24VDC, and 125VDC power supply, and bonus Port and bridge modules



Magnum™ 3000X Mixed Media Concentrator can facilitate growth and change in 10Mb legacy networks supporting a large number of nodes. It is a versatile unit that offers a cost-effective approach for interconnecting up to twelve Ethernet network segments that may be of different media types. With practically unlimited stacking of up to 20 units, Magnum 3000X products are the most flexible and cost-effective solutions available for legacy network centers and industrial control systems.

The Magnum 3000X chassis has 12 slots, each of which can accept one Port Module for media connection. Magnum 3000X units can be managed by any of the network management systems products that support industry-standard SNMP agents, or by a Windows PC-based Network Management System software platform with graphical icons.

Users may configure any mix of media combinations. The RPM types available include media connectors for BNC with a termination switch; Multi-mode Fiber 10BASE-FL; Single-mode Fiber; AUI; RJ-45 for unshielded and shielded 10BASE-T twisted pair with up-link switch; and DTE for connection to servers and similar stations. A stacking cable is included for stacking 3000X units with each other, or with Magnum 3000 12-port and 24-port 10Mb hubs.

A Magnum 3000X unit operates as a single logical repeater and provides full repeater functionality on all RPM ports. The modular Magnum 3000X can be stand-alone or easily rack-mounted.

Magnum 3000X Mixed Media Concentrators comply with Ethernet standards. All Magnum products are designed and manufactured in the USA and are backed by a three-year warranty.



## GarrettCom®

Industrial Networking at Its Best™

## PERFORMANCE:

Data Rate: 10Mb  
RPM Partitioning: Enforced after 32 consecutive collisions  
RPM Reconnect: Occurs after 512 bits of error-free transmission

## MAXIMUM STANDARD ETHERNET LENGTHS:

DTE (AUI drop cable): 50 m  
10BASE-T (twisted pair): 100 m  
10BASE2 ThinNet: 185 m  
10BASE5 ThickNet: 500 m  
10BASE-FL mm Fiber Optic 2 km  
Single-mode Fiber Optic 10 km

## NETWORK STANDARDS:

Ethernet V1.0/V2.0, IEEE 802.3; 10BASE-T, 10BASE2, 10BASE5, DTE, 10BASE-FL

## OPERATING ENVIRONMENT:

Ambient: 32° to 120°F (0° to 50°C)  
Storage: -5° to 140°F (-40° to 70°C)  
Ambient relative humidity: 10% to 95% (non-condensing)  
Conformal coating (humidity protection) option: Request quote

## AC POWER SUPPLY (INTERNAL):

Power Input Voltage: 90-260vac (auto ranging)  
Power Input Frequency: 47 - 63 Hz  
Power Consumption: 30 watts typical, 40 watts max

## DC POWER SUPPLY OPTIONS:

-48VDC: Input -36 to -70VDC  
24VDC: Input 20 to 40VDC  
125VDC: Input 120 to 160VDC  
Std. Terminal Block: "-", GND, "+",  
Power Consumption: Same as AC

## SEGMENT CONNECTORS

Front Hub Ports: 12 cut-outs for PMs  
Rear Bonus Port Slot: 1, for any PM

## OTHER CONNECTORS

SNMP Agent Serial Port: RS-232, DB-9 "P1" on rear panel  
IRB: 34-pin socket connector  
A shielded ribbon cable assembly suitable for an IRB daisy chain is included with each unit

## MECHANICAL:

Enclosure: High-strength metal, suitable for stand-alone or 2U rack mounting. Rack-mounting brackets: 19" included; ETSI and 23" Telco optional.  
Dimensions: 9.0 x 17.0 in. x 3.5 in.  
(22.9 cm x 43.2 cm x 8.9 cm)  
Weight: 5.2 lbs. (2.4 Kg)  
Cooling Method: Fan cooled, @15cfm

## LED INDICATORS ON CHASSIS:

PWR: Steady on when power applied  
RX: Blinks when there is activity on any port  
COL: On when a collision detected, any port  
JAB: On when jabber (illegal packet length) detected

## AGENCY APPROVALS:

UL Listed (UL1950), cUL, CE  
Meets FCC Part 15, Class A

## WARRANTY:

Three years

Made in USA

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## REPEATER PORT MODULE SPECIFICATIONS

RPM TYPE	BNC	AUI	DTE	Fiber-mm	Fiber-sgl. m	TP*
Front Access	yes	yes	yes	yes	yes	yes
Connector Type	BNC-f	DB-15f	DB-15m	Fiber ST	Fiber ST	RJ-45
Partition (PART) LED	yes	yes	yes	yes	yes	yes
Receive (RX) LED	yes	yes	yes	yes	yes	yes
LINK LED	N.A.	N.A.	N.A.	yes	yes	yes
Switch on Face Plate	yes**	none	none	none	none	yes***

Fiber-mm is for multimode cable, normally used for 10BASE-FL installations, up to 2.0 Km; Fiber-sgl.m is for single-mode fiber cable, used for up to 10.0 Km.  
\*The TP shielded connector accepts RJ-45 8-pin plugs for unshielded or shielded twisted pair wiring  
\*\*Internal termination switch for BNC, no "T" connector required  
\*\*\*MDI-X (Media Dependent Interface - Crossover) switch for RJ-45 up-link, no crossover cable required

**Note: Port Modules are also used with the 10Mb Magnum "X" series, and as Bonus Port modules for Magnum Model 1000 hubs and Model 3000 Stackable Hubs. All Port Modules should be installed at the factory or by trained technicians.**

## Ordering Information

**Magnum 3000X** Base Chassis with 12 slots for RPMs, plus 1 rear mixed-media slot, internal power supply

**RPM-BNC** Module with 1 BNC connectors  
**RPM-AUI** Module with 1 AUI connectors  
**RPM-DTE** Module with 1 DTE connectors  
**RPM-FST** Module w/ mm Fiber ST connectors  
**RPM-SMF** Module with sgl.m Fiber connectors  
**RPM-TP** Module with 1 RJ-45 connectors  
**PM-FP** Face Plate for unused slots

**Magnum 3000-MB** SNMP Agent board option

Request quote for models with -48VDC power option and other special features.



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