

Magnum 3000s

12 and 24-Port Stackable
10Mb Hubs, 3000s

Features

- 24-port and 12-port stackable 10BASE-T hubs with low cost of ownership and high port density
- Optional SNMP agent as separate box unit or embedded board module
- Durable metal enclosure incorporates internal universal power supply. 19" RETMA rack-mount brackets included. Optional ETSI and 23" Telco brackets available
- Available options include: SNMP agent, -48VDC, 24VDC, or 125VDC power, dual-source, NEBS and ETSI certification, EMI Class A, extended temperature range operation, and bonus port modules



Magnum 3000 Stackable Hubs provide a full line of features and options to economically support Ethernet networks. For demanding applications where the best quality and the highest reliability is needed, thousands of Magnum 3000s have been installed. These products have proven themselves to be the "best of breed" in 10Mb Ethernet Hubs.

Two building-block hub models are available, with 24 and 12 shielded twisted-pair ports. LEDs at each port indicate network status. A rear bonus port provides for optional backbone media connectivity, typically using a fiber port module. Magnum 3000 stacks may include Magnum 3000X Mixed-Media Concentrators to configure a network solution for any environment.

The design of the Magnum 3000 Stackable line incorporates an Inter-Repeater Bus (IRB) so that users can interconnect multiple units of the same or different types in a stack that operates as one logical unit, with or without SNMP management.

An SNMP agent is available for Magnum 3000 stacks. One SNMP agent, installed anywhere in the stack, collects data and executes local port controls for the entire stack and all associated Ethernet segments. The Magnum 3000 stack can be managed by any of the network management products that support industry-standard SNMP agents, or by a Windows PC-based Network Management System software platform with graphical icons.

The Magnum 3000 Hubs and all Magnum products are designed and manufactured in the USA and are backed by a three-year warranty.

PERFORMANCE:

Data Rate: 10Mbps
 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): 50m
 10BASE-T (twisted pair): 100m
 10BASE2 ThinNet: 185m
 10BASE5 ThickNet: 500m
 10BASE-FL Multi-mode Fiber Optic: 2.0km
 Single-mode Fiber Optic 10.0km

NETWORK STANDARDS:

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

OPERATING ENVIRONMENT:

Ambient: 25° to 120°F (-5° to 50°C), optional extended range
 Storage: -40° to 185°F (-40° to 85°C)
 Ambient relative humidity: 5% to 95% (non-condensing)
 Altitude: -200 to 13000ft (-60 to 4000m)
 Conformal coating option: Request quote

AC POWER SUPPLY (INTERNAL):

Power Input: 90-260vac 47 - 63 Hz
 Power Consumption:
 Model 3024: 14 watts typical, 26 watts max.
 Model 3012: 10 watts typical, 20 watts max.
 Agent Box: 12 watts typical, 15 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

DC DUAL POWER SOURCE (OPTIONAL):

The Magnum 3000s may be ordered with optional Dual DC power input, for continuity of operation when either one of the DC input sources is interrupted. Available for -48VDC, 24VDC, and 125VDC input types.

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: Rugged high-strength sheet metal. Suitable for stand-alone or 1U rack mounting. Rack-mounting brackets: 19" included; ETSI and 23" Telco optional.

Dimensions: Models 3012, 3024 and Agent Box:

9.0 in x 17.0 in x 1.755 in
 (22.9 cm x 43.2 cm x 4.45 cm)

Weight: Model 3024: 5.0 lbs (2.3 Kg)

Model 3012: 4.0 lbs (1.8 Kg)

Agent Box: 3.5 lbs (1.5 Kg)

Cooling Method: Convection (when a 3024 has an internal Agent Board, it is cooled with a 7 cfm internal fan.)

LED INDICATORS:

PWR: Steady on when power applied
 LINK: Steady on when twisted pair link is operational. Flashing when the port is partitioned by hardware
 RX: Blinks when there is activity on the port

AGENCY APPROVALS:

UL Listed (UL1950), cUL, CE
 Meets FCC Part 15, Class A
 ETSI and NEBS L3 Certified versions available

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 (3000X, 700X, 200X) and as Bonus Port modules for Magnum Model 1000 hubs.
 All Port Modules should be installed at the factory or by trained technicians.

Ordering Information

Magnum 3024: Base Chassis with 24 RJ-45 ports, shielded connectors
 Magnum 3012: Base Chassis with 12 RJ-45 ports, shielded connectors

Magnum 3000-pm: Designates a PM, factory installed in rear bonus slot
 RPM-BNC Repeater Port Module with 1 BNC connector
 RPM-AUI Repeater Port Module with 1 AUI connector
 RPM-DTE Repeater Port Module with 1 DTE connector
 RPM-FST Repeater Port Module with Multi-mode Fiber ST connector
 RPM-SMF Repeater Port Module with Single-mode Fiber connector
 RPM-TP Repeater Port Module with 1 RJ-45 connector
 PM-FP Face Plate for unused slots

Network Management Options:

Magnum 3000-MB: SNMP Agent board option
 Magnum 3000-AGT: SNMP Agent Box unit
 Magnum 3000-NMS: Network Management Software, PC / Windows-based

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



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