

### Features

- 16-port, and 8-port 10BASE-T hubs with low cost of ownership and high port density
- Low cost, flexible “plug and play” Ethernet connectivity solution for workgroups
- Rear bonus port provides optional backbone connection of any media type
- Durable metal enclosure incorporates internal auto-ranging AC universal power supply
- Optional -48VDC, 24VDC, or 125 VDC power supply for industrial environments



Magnum™ 1000 Workgroup Hubs provide a rugged industrial solution for networking small-to-medium-sized node groups via shielded or unshielded twisted-pair cabling. Magnum Workgroup Hubs are full-function Ethernet 10Mb repeaters that can operate as stand-alone hubs or interconnect into larger networks of any media type.

Magnum Workgroup Hubs Models 1008 and 1016, offer eight or 16, front-mounted shielded RJ-45 ports respectively, plus one or two additional special-purpose ports in the rear. One front RJ-45 port has a switch for use as an up-link port to another hub or concentrator. The robust units have a metal enclosure, front-mounted status LEDs, and an internal power supply. They may be rack-mounted or installed in a wiring closet, or on a shelf or table-top.

For installation and operational flexibility, Magnum 1000s can be configured with a repeater port module in the bonus port slot to provide interconnection to a backbone, or to a user or special device, via any media type.

Magnum 1000-Series 10Mb Hubs are compatible with all networking software environments and support full-length twisted-pair segment distances. All models fully support the V2.0/IEEE 802.3 10Mb Ethernet specification.

The Magnum 1000-Series Hubs and all Magnum products are designed and manufactured in the USA and are backed by a three-year warranty.

# Specifications

## 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): 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: 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):

AC Power Connector: IEC recessed male, rear mounted  
Power Input: 90-260vac (auto ranging) 47 - 63 Hz  
Power Consumption:  
Model 1008: 4 watts typical, 6 watts max.  
Model 1016: 6 watts typical, 8 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

## CONNECTORS

Front Ports: Model 1008: 8 shielded RJ-45s  
Model 1016: 16 shielded RJ-45s  
Bonus Port: 1, for any Port Module (PM).

## MECHANICAL:

Enclosure: Rugged high-strength sheet metal. Suitable for stand-alone or 1U rack mounting. 19" rack-mount ears included on 16- and 24-port models. Rack-mount brackets optional on model 1008. ETSI and 23" Telco optional on 16-port models.

Dimensions: Model 1008: 8.5 in x 7.5 in x 1.75 in  
21.6 cm x 19.7 cm x 4.45 cm  
Models 1016: 17.0 in x 7.75 in x 1.75 in  
43.2 cm x 19.1cm x 4.45 cm

Weight: Model 1008: 3.4 lbs (1.6 Kg)

Model 1016: 3.4 lbs (1.4 Kg)

Cooling Method: Convection

## LED INDICATORS:

PWR: Steady on when power applied  
ACT: Common activity indicator  
LINK: Per port, steady on when twisted pair link is operational.  
Flashing when the port is partitioned by hardware.

## AGENCY APPROVALS:

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

## WARRANTY:

Three years

Made in USA

© 2002 GarrettCom, Inc. Printed in United States of America. Doc No. 1000s-R4 07/05  
GarrettCom, Inc. reserves the right to change specifications, performance characteristics and/or model offerings without notice. GarrettCom, Magnum, and Personal Switch are trademarks, and Personal Hub is a registered trademark of GarrettCom, Inc. NEBS is a trademark of Telcordia Technologies. UL is a registered trademark of Underwriters Labs.

## 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 3000 hubs. All Port Modules should be installed at the factory or by trained technicians.

## Ordering Information

### Magnum 1008:

8-port 10BASE-T Workgroup Hub with internal auto-ranging power supply, shielded RJ-45 connectors, and front-mounted status LEDs. Includes a basic AUI port in the rear, may optionally be ordered with an RPM or BPM in the rear port slot. Up-link switch on port 1. Rack-mount brackets optional.

### 1008-RMB:

Rack-mount option (two brackets) for one Model 1008 Workgroup Hub.

### Magnum 1016:

16-port 10BASE-T Workgroup Hub with internal auto-ranging power supply, shielded RJ-45 connectors, and front-mounted status LEDs. Includes a basic AUI port in the rear, and a second bonus port slot for an optional RPM or BPM. Up-link switch on port 1. Rack-mount brackets included.

### Magnum 10xx-*pm*:

Designates a port module (RPM or BPM) to be factory-installed in rear bonus port 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



**GarrettCom™**  
Ethernet at Its Best™

GarrettCom, Inc.  
47823 Westinghouse Drive  
Fremont, CA 94539  
PH: (510) 438-9071  
FAX: (510) 438-9072  
Email: mktg@garrettcom.com  
Web: www.GarrettCom.com