

PRONET-4/16 PLUS SERIES 75 TOKEN RING STACKABLE HUB



The Series 75 brings advanced fault-tolerance, manageability, and expandability together in an affordable, stackable Token Ring hub. The Series 75's modular design lets you choose how to build your network. You purchase only the network access capacity and capabilities you need, when you need them, to minimize initial investment and lower overall networking costs. Proteon's proven reliability, interoperability, and technology expertise make the Series 75 one of the most cost-effective stackable hubs for building PC Token Ring workgroups.

The Series 75 Token Ring Stackable Hub base unit, the p7500, is a 16 port, Unshielded Twisted Pair (UTP) Token Ring hub. The p7500 active hub technology provides the foundation for a full range of network availability features, including instantaneous wrong speed lockout, automatic loopback and bypass, and active jitter reduction, to protect against network failures.

Compact size and a modular architecture make the Series 75 future-proof and user upgrade-ready. Additional modules, such as management and trunk modules, can be easily added to the Series 75 as network requirements evolve. The Series 75 grows with you as your workgroup expands. New users or groups of users can be connected simply by adding another p7500 hub. Up to 144 nodes can be supported in a single Series 75 stack by linking up to 9 p7500 base system units. Built-in UTP and STP Trunk Ports give you the flexibility to install and configure the Series 75 in a wide range of cabling environments.

A full suite of management features are available for the Series 75, allowing you to manage it as a standalone hub, stacked hub, or as part of an overall network.

Visual displays, out-of-band serial local and remote management, and SNMP management capabilities are offered.

Series 75 Hubs provide low-cost Token Ring network integration. You pay as you go for additional users and functionality. The Series 75 installs with plug and play ease for simple and fast network access. Series 75 Hubs do not require on-site technical personnel for operation and management, which lowers maintenance costs.

FEATURES SUMMARY

- Up to 144 workstations on a single Token Ring
- Active jitter reduction on all ports
- Wrong ring speed detect and lockout on all ports
- Auto-Beacon detect and isolation
- RI/RO (Ring In/Ring Out) STP and UTP Trunk Port media matching connectors
- RI/RO trunk fail safety circuit
- RI/RO repeaters

MAXIMUM NETWORK AVAILABILITY

The Series 75 Hub is designed for exceptional network availability. The p7500 regenerates and retimes the data signal on all ports to ensure maximum signal strength and actively reduce jitter on the ring. Instantaneous wrong speed lockout detects and isolates any device attempting to enter the ring at the wrong speed, eliminating the major cause of beaconing and network failure. Built-in RI and RO speed detection automatically wraps a port when the wrong speed is detected at the RI or RO port to eliminate network crashes caused by devices from other hubs attempting to enter the ring at the wrong speed.

Cable failures are automatically detected on both the network lobes and trunk cables. The Trunk Fail safety circuit feature causes the Series 75 to automatically wrap lobe ports in the event of a failure in a Trunk cable. The Series 75 even senses its own power loss, and automatically bypasses signals to the next available concentrator to protect the ring from collapse.

FLEXIBLE CONNECTIVITY

The Series 75 provides UTP and STP media matching RI and RO port connections for use in mixed cable environments. With this feature, UTP nodes can be easily integrated into existing STP environments simply by making the cable connection. Both 4 and 16 Mbps data rates are supported. The Series 75 Hub active trunk repeaters break the distance limitations for traditional stackable hubs. p7500 hubs can be located by up to 200M apart using UTP Category 5 cabling (up to 100M apart using UTP Category 3 cabling). This allows p7500 hubs to be used in widely distributed work environments.

EASY INSTALLATION AND OPERATION

It's simple and fast to install a p7500. For the standard, standalone p7500 hub unit, you simply plug in the cables and power cord, and the hub is up and

running. A full suite of front-panel multi-state LEDs provide status at a glance to monitor installation and network troubleshooting. LEDs are provided for lobe status on each port, and five additional LEDs monitor data integrity, line speed, RI/RO cable integrity and power.

STACK BUS

The p7560 Stack Bus Module allows individual p7500s to be easily managed as part of a hub stack. The p7560 is self-learning and self-configuring. A Series 75 Stack is managed through a DOS/Windows-based software application included with the p7560 that performs local and remote out-of-band configuration and control.

SNMP MANAGEMENT

The p7570 SNMP Management Module option provides SNMP standards-based network management for a single Series 75 hub or an entire stack. The p7570 is MIB II compliant and enables the Series 75 Hub to be fully SNMP manageable. Popular SNMP network management platforms can be used to manage a p7570 equipped p7500 hub or stack. In

the event a network failure causes a beacon, the p7570 will automatically detect the condition and isolate the fault domain. In addition, remote management is supported through the console port and an external modem via Telnet or PPP serial line.

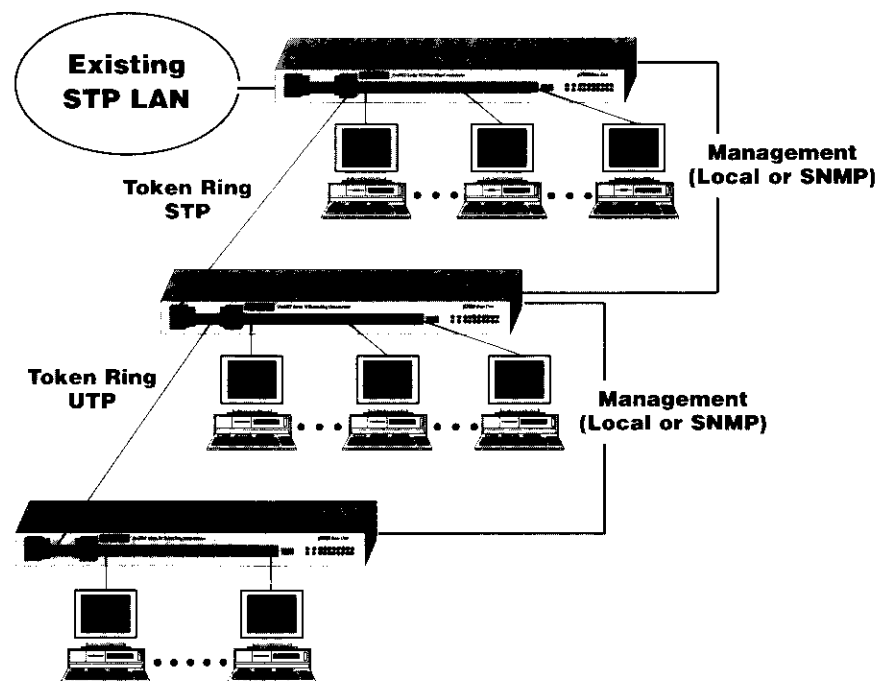
HUB SOLUTIONS FROM PROTEON

Proteon offers a family of standalone, stackable, and chassis-based intelligent Token Ring hubs and wiring center products to meet the demands of today's corporate-wide networks. The Series 75 Hub is the newest addition to the Proteon family that includes the Series 70 and Series 90 Intelligent Hubs. Series 70, Series 75, and Series 90 Hubs can be intermixed within LAN environments to expand an existing network or build a new network.

SUPPORT

The Series 75 includes a limited lifetime hardware warranty. Proteon provides comprehensive, worldwide service for all of its products 24 hours a day, every day of the year.

PRONET-4/16 PLUS SERIES 75 TOKEN RING STACKABLE HUB



SPECIFICATIONS

DIMENSIONS	H: 1.75", W: 17.5", D: 10.0" (4.4 x 44.4 x 25.4 cm) Fits 19" EIA standard rack spacing
CONNECTORS	16 RJ-45 for workstation connection 2 RJ-45s and 2 802.5 Data Connectors for Ring-In/Ring-Out connection DIN connector for external power supply adapter
MEDIA SUPPORT	UTP (Cat. 3, 4, and 5) for workstation connection STP (IBM Type 1 or 6) or UTP (Cat. 3, 4, and 5) for RI and RO trunk connection
RING SPEED	4 Mbps or 16 Mbps
SWITCH CONFIGURATIONS	Manager Enable/Disable 4 Mbps/16 Mbps Ring Out Trunk Fail Enable/Disable Ring In Trunk Fail Enable/Disable
OPERATING TEMPERATURES	0°C to 50°C (32° to 122°F)
HUMIDITY	10% to 95% (non condensing)
POWER CONSUMPTION (EXTERNAL POWER SUPPLY)	95-138 Vac (North America) 175-265 Vac (EEC) 47-63 Hertz 50 watts max
CERTIFICATION	
EMC:	FCC Class A; CISPR Class B
SAFETY:	UL, CSA, TUV/GS/EN CE Mark
STANDARDS COMPLIANCE:	IEEE 802.5

ORDERING INFORMATION:

P7500	Series 75 Hub Base System Unit
P7560	Series 75 Stack Bus Module A Stack bus Module is ordered for each p7500 for stack and local Out-of-Band management.
P7570	Series 75 SNMP Management Master Module A single SNMP Management Master Module is ordered for In-Band and Out-of-Band SNMP management.



Corporate Headquarters

Proteon, Inc.
Nine Technology Drive
Westborough, MA 01581-1799
(508) 898-2800
Worldwide Web URL: <http://www.proteon.com>
Info Faxback: 800-545-7464 (North America)
508-836-5321 (International)
Email: pro@proteon.com

European Headquarters

Proteon International, Ltd.
Lockington Hall
Lockington
Derby
DE74 2RH
England
44-1509-670444

Asia Pacific Headquarters

Proteon Networks Pte. Ltd.
30 Bideford, #02-02
Thongsia Building
Singapore, 0922
65-732-2727

Sales Offices

Sunnyvale, CA	408-739-5069
Irvine, CA	714-727-2467
Palm Beach Gardens, FL	407-747-6067
Duluth, GA	404-495-2400
Hoffman Estates, IL	708-882-7020
Urbana, IL	217-244-7710
Glen Burnie, MD	410-760-4340
New York, NY	212-661-3330
Dallas, TX	214-746-5566
Houston, TX	713-267-2300
Reston, VA	703-709-9190
North Sydney, Australia	61-29-955-8555
Toronto, Canada	416-363-8442
Hong Kong, China	852-815-1960
York, England	44-1904-693-409
Sophia Antipolis, France	33-92-94-48-30
Kelkheim, Germany	49-6195-901-011

Specifications subject to change without notice.
Copyright ©1995 by Proteon, Inc.
All rights reserved. Printed in the U.S.A.
Proteon, the Proteon logo, and ProNET-4/16 are
trademarks of Proteon, Inc.
All other trademarks are property of their
respective owners.

DATA SHEET/0111/9.95/10.0