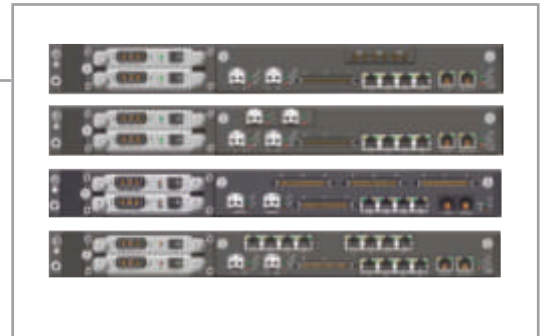


NetRing® 600A

MULTI-SERVICE OPTICAL TRANSPORT PLATFORM

COMPACT THIRD GENERATION MSTP SYSTEM COMBINES VERSATILE SERVICE DELIVERY AND BROADEST FUNCTIONALITY SET



- **SMALL FOOTPRINT**
- **MULTI-SERVICE**
- **FULL PROTECTION**
- **SONET**
- **UNIFIED DELIVERY**
- **WALL MOUNTABLE**

NetRing® 600A is a third generation multi-service optical transport device that effectively combines and delivers separate functions, previously attributed to multiple independent platforms. These functions include Terminal Multiplexer (TM), Add-drop Multiplexer (ADM), Digital Cross-connect System (DCS), and Ethernet switching and aggregation. This integration drastically reduces service provider network complexity and simplifies network operations and maintenance. Essentially, the NetRing 600A simplifies new deployments and extends the life of legacy SONET networks, enabling carriers that are planning on providing next-generation services, to realize substantial savings on capital and operational expenditures.

TINY FOOTPRINT

The compact NetRing 600A platform is only 1U high. It provides versatile service access capabilities and an unprecedented price/performance ratio. The NetRing 600A chassis is based on the 19-inch standard and can be installed in any ETSI compliant, 19-inch rack. In addition, the platform may also be wall-mounted.

FULL SONET FUNCTIONALITY

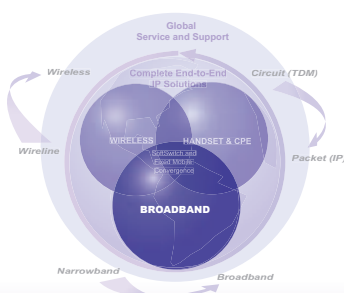
NetRing 600A can be flexibly configured to deploy OC-3/OC-12/EC-1 networks. It supports multiple network element (NE) types, including TM, ADM and DCS, and is able to add/drop various low-rate SONET signals directly into/from OC-3/OC-12 SONET signals. NetRing 600A provides cross-connect functionality at VT1.5/STS-1 levels. The system complies with Telcordia GR-253-CORE.

FULL SUITE OF PROTECTION SCHEMES

NetRing 600A provides a full suite of network protections including 1+1 linear APS protection, UPSR and 2-fiber BLSR; SNC and DNI. The NetRing 600A supports 1+1 hot redundant power supply by means of two -48VDC/24VDC power supply modules

POWERFUL ETHERNET FUNCTIONALITY

NetRing 600A provides comprehensive Ethernet over SONET (EoS) functions. It supports continuous concatenation and Virtual Concatenation; VCAT is supported at both VT1.5 and STS-1 levels. Industry standard GFP is used for framing. Link Capacity Adjustment Scheme (LCAS) provides dynamic and efficient bandwidth management. NetRing 600A implements sophisticated Layer 2 switching, traffic shaping and management functions.



Technical Specifications



HARDWARE

SYSTEM CHASSIS

Dimensions (HxWxD)	44.45mm (1.73 in.) x 430mm (16.77 in.) x 260mm (10.14 in.) (HxWxD)
Weight	5Kg (11 lb)
Temperature	0° TO 50° C (32 TO 113° F)
Humidity	5 TO 95% non-condensing
Power	-48VDC, 24VDC, 110-220 VAC
Power Consumption	35W fully loaded
Compliance	FCC Part 15 Class A, UL1950, NEBS Level 3

INTERFACE

NETWORK INTERFACE

OC-3 1 or 2 port: SMF, SFP optical transceivers, 1310nm/1550nm Intermediate Reach or Long Reach with LC connector
OC-12 1 or 2 port: SMF, SFP optical transceivers, 1310nm/1550nm Intermediate Reach or Long Reach with LC connector
EC-1 1 or 2 port: SMB connector

TRIBUTARY INTERFACE

OC-3 2xSTM-1 (SFP)
10/100M Ethernet Up to 12 ports
GbE Ethernet 2 ports: 802.3z SMF or MMF with sx-SFP. 1310nm or 850nm
T1 Up to 64 ports.
EC-1 3 ports: can be configured to mix and match for different combinations

CROSS-CONNECTION

SONET Capacity 72X72 STS-1 & 1344X1344 VT1.5
TYPE Unidirectional, Bi-directional, Broadcast, Multicast, Drop and Continue

TIMING/SYNCHRONIZATION

SSM, External Bits Clock of Stratum 3 or better, Primary and secondary T1 external timing references, OC-3/OC-12 line timing reference. Hold over, Free runs

NETWORK MANAGEMENT

TL1, LCT (local Craftsman Terminal), NetMan™ 6000 OMC-O (EMS)

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About UTStarcom, Inc.

UTStarcom is a global leader in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless, and handset solutions to operators in both emerging and established telecommunications markets around the world. UTStarcom enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks. Founded in 1991 and headquartered in Alameda, California, the company has research and design operations in the United States, China, Korea and India. UTStarcom is a FORTUNE 1000 company. For more information about UTStarcom, visit the company's Web site at www.utstar.com

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