

NetRing™ 2500S

STM-16/4/1 MULTI-SERVICE OPTICAL TRANSPORT PLATFORM

THIRD GENERATION MSTP SYSTEM DELIVERS COST-EFFECTIVE SERVICES AND INTEGRATED FUNCTIONALITY



- **MULTI-SERVICE PROVISIONING**
- **MULTIPLE TOPOLOGY SUPPORT**
- **PAY-AS-YOU-GROW**
- **FULL PROTECTION**
- **1:N ELECTRICAL PROTECTION WITH CLEAN CABLING**

NetRing™ 2500S is a multi-service optical transport system designed to simplify service provider networks, dramatically reducing both operational and capital expenditures. The system enables the delivery of SDH services and next-generation data services – including ATM, FE and GE – rapidly, efficiently and cost-effectively. The highly integrated NetRing 2500S platform unifies the functions of a next-generation SDH Add-drop Multiplexer (ADM), Digital Cross-connect System (DCS), ATM/Ethernet aggregation switch plus Resilient Packet Ring (RPR) in a single carrier-class shelf.

DISTRIBUTED CROSS-CONNECT DESIGN

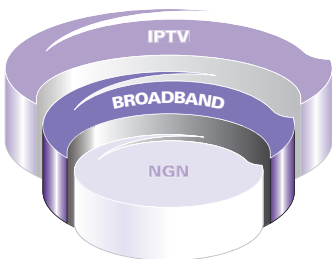
NetRing 2500S utilizes a distributed cross-connect architecture, which ensures a favorable performance-to-cost ratio. Because of this extensive network adaptability, NetRing 2500S is suitable for access, LAN, MAN and backbone networks. Its distributed cross-connect architecture enables a pay-as-you-grow strategy based on the required number of optical interfaces and the interface rate.

MULTI-SERVICE PROVISIONING

NetRing 2500S supports continuous and virtual concatenation at VC-12/4/3 in SDH. It also supports Generic Framing Procedure (GFP), Link Capacity Adjustment Scheme (LCAS), and has built-in Ethernet service functions. GFP is used to map FE/GE services into NxVC-12/4/3 for transmission. In addition, the platform supports Layer 2 switching and flow control. NetRing 2500S also supports ATM service, providing STM-1 and Inverse Multiplexing for ATM (IMA) interfaces.

FULL SUITE OF PROTECTION SCHEMES

The NetRing 2500S provides a full suite of network-level protections including SDH 1+1 MSP; 1:N MSP; 2/4F MS-SPRing. The platform supports 1+1 hot redundant control and timing (clock) modules. The NetRing 2500S also provides electrical protections for E1 and DS3/E3/STM-1e.



HARDWARE

SYSTEM CHASSIS

DIMENSIONS

- 531 x 483 x 281mm (HxWxD)

WEIGHT

- 23Kg (51 lbs)

OPERATING HUMIDITY

- 5%RH ~ 85%RH @ 30°C

OPERATING TEMPERATURE

- 5°C ~ 40°C

POWER

- -48VDC

POWER CONSUMPTION

- 155W fully loaded

COMPLIANCE

- FCC Part 15 Class A, UL1950, VCCI and latest ITU-T standards, Telecordia GR-253-CORE, IEEE802.3, 802.3u/z/ad; 802.1/q/p/d/s/w

INTERFACE

NETWORK

STM-16

- 1 port per module, max 4 ports per shelf

STM-4

- 1/2/4 port (s) per module, max.32 ports per shelf

STM-1

- 1/2/4 port (s) per module max.32 ports per shelf

TRIBUTARY

10/100BASE-T ETHERNET

- 8 ports, max.48 ports per shelf

GIGABIT ETHERNET

- 4 ports, max.24 ports per shelf

STM-1 ELECTRICAL

- 4 ports per module, max.24 ports per shelf

E1

- 63 ports per module, max.378 ports per shelf

E3/D3

- 3 ports per module, max.18 ports per shelf

CROSS-CONNECTION

SDH CAPACITY

- 80x80 VC-4 & 2016x2016VC-12

TYPE

- Unidirectional, Bi-directional, Broadcast, Multicast, Drop and Continue

DATA SERVICE

FRAMING AND CONCATENATION

GFP, Continuous concatenation and Virtual concatenation at VC-12/VC-3/VC-4

ATM

RPR

A0/A1/B(EIR & CIR)/C, Wrapping/Steering

10M/100M BASE-T/FX

base-T 802.1d/p/q/s, 802.3x/ad, VLAN Tagging, VLAN trucking. Rate limiting from 64kbps, 64kbps incremental, LCAS.

GbE

802.3z

PROTECTION SCHEMES

SDH: 1+1 MSP;1:N MSP;2/4F MS-SPRing;

SNCP for VC-12/VC-3/VC-4

Tributary: 1:5 E1 CFP, 1:4 E3/DS3 CFP, 1:4

STM-1e CFP

TIMING/SYNCHRONIZATION

SSM, External Bits Clock of Stratum 3 or better,

Primary and secondary E1 external timing

references, STM-n line timing reference.Hold

over, Free runs.

NETWORK MANAGEMENT

TL1, LCT (local Craftsman Terminal),

NetMan™ 6000 OMC-O (EMS), TMF814

Please note the information contained herein is for informational purposes only. Technical claims listed depend on a series of technical assumptions. Your experience with these products may differ if you operate the products in an environment, which is different from the technical assumptions. UTStarcom reserves the right to modify these specifications without prior notice. UTStarcom makes no warranties, express or implied, on the information contained in this document.

UTStarcom, Inc. USA

1275 Harbor Bay Parkway
Alameda, CA 94502, USA
Tel: 510-864-8800
Fax: 510-864-8802

www.utstar.com

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

Copyright © 2008 UTStarcom, Inc. All Rights Reserved. UTStarcom and the UTStarcom logo are registered trademarks and A World of Better Communication and NetRing are trademarks of UTStarcom, Inc. and its subsidiaries. All other trademarks are the property of their respective owners.