NetRing® TN725

MPLS-TP PACKET TRANSPORT NETWORK SOLUTION

Unified Services Packet Transport Edge/Aggregation Device

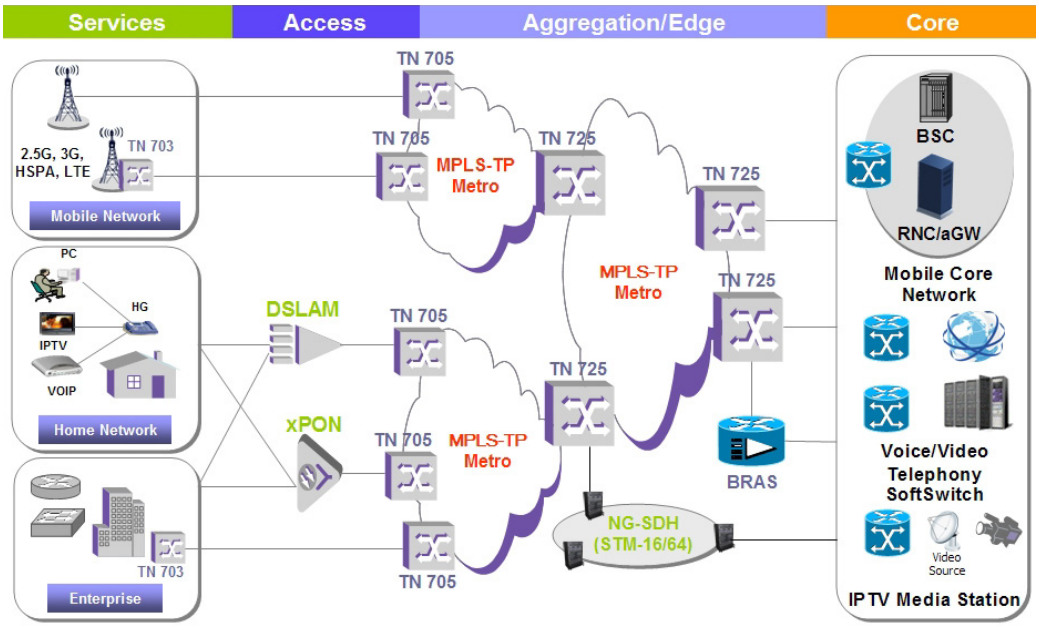


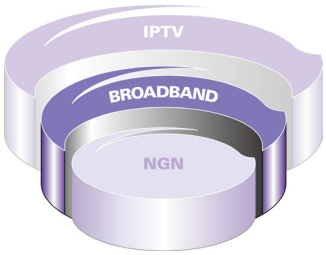
- MPLS-TP BASED
- MULTI SERVICE SUPPORT
- CARRIER CLASS DESIGN
- SMALL FOOTPRINT
- FULL PROTECTIONS
- QUALITY OF SERVICE
- MULTICAST SUPPORT
- H-VPLS SUPPORT
- MEF9 & MEF 14 CERTIFICATIONS

With data traffic consuming most of carrier's bandwidth in current SONET/SDH infrastructure, to use a convergence transport technology is the key for today's metro network carriers and service providers. NetRing® TN725 is a new product based on pseudo wire over MPLS/MPLS-TP technology. Equipped with the enhanced data service processing capability and powerful network management function, TN725 is well oriented to the Packet Transport Network (PTN). TN725 can provide aggregation network solutions at the access layer and metro layer and substantially reduce the operational cost. TN725 can be used in both UPE and Network Provider Edge (NPE) situations.

LAYERED ARCHITECTURE

With TN725, Ethernet, TDM (E1, SONET/SDH) or ATM payload is transported over the Pseudo wire layer where those payloads could be encapsulated and multiplexed/de-multiplexed into a single MPLS-TP tunnel. MPLS-TP layer provides transport tunnel for those traffic to transfer across MPLS/MPLS-TP network. At physical layer, the TN725 could use Ethernet or packet over SDH/SONET transport technologies.





Technical Specifications

SYSTEM CHASSIS

DIMENSIONS	440x320x410mm WxHxD (7U)
OPERATION TEMPERATURE	5° TO 40° C
OPERATION HUMIDITY	5 TO 85% non-condensing
POWER SUPPLY	-48V DC, dual inputs
TYPICAL POWER CONSUMPTION	480W
WEIGHT	23kg(empty)/43kg(full)

INTERFACE

	Ports per Card	Maximum Ports per Shelf
STM-64 POS (FUTURE)	1 (N64F01)	6
STM-16 POS (FUTURE)	1 (N64F01)	6
10 GE	1 NXGF01)	6
GE	12 (CGF12/CGT12)	36
FE	12 (CGF12/CGT12)	36
ATM STM-1	8 (CAEF08)	64
SDH STM-1	8 (CAEF08)	64
E1/T1	32 (ET1P32)	32 with protection

DATA PACKET PROCESSOR

PACKET PROCESSING CAPACITY	108Gbps full duplex switching fabric

MPLS-TP FEATURES

Maximum 4K Label Switching Path(LSP) tunnel per TN725 chassis;

EXP-Inferred-PSC LSPs(E-LSP);

Label-only-Inferred-PSC LSPs(L-LSP);

Per platform Label space support;

Bi-directional MPLS-TP trail and Uni-directional MPLS-TP trail;

Diff-Serv support:

- 2 service levels for TDM Emulation;
- 4 service levels for statistical multiplexing traffic;
- 8 service levels supported in the Network;

MPLS OAM including protection switching;

LSP Ping;

LSP TraceRoute;

EMS/SNMS manual control the setup and release of PW and LSP.

CLIENT INTERFACES/SERVICES:

ATM: ATM over MPLS and ATM IMA

Interfaces: STM1, E1

PDH: SAToP and CEP

Interfaces :E1, T1

SDH : SAToP and CEP

Interfaces: STM1

Ethernet : EoMPLS, E-LINE and ELAN

Interfaces: 10GE, GE, FE

PROTECTION SCHEMES

Hardware redundancy:	1+1 power supply, 1+1 main control (OAM), 1+1 clock processing unit, 1+1 switch fabric, 2:1 E1 Card Failure Protection (CFP)
Network Protection:	1+1 Linear MSP (ITU-T G.841 Annex B) for STM-1 (ATM or SDH); 1:1 Linear MSP for STM-1 (ATM or SDH); 1+1 Linear protection for LSP; 1:1 Linear Protection for LSP

TIMING/SYNCHRONIZATION

POS interface: line timing and SSM(S1 byte) transmission;

GE/10GE interface: line timing and SSM(control frame) transmission;

Free run: ±4.6ppm (ITU G.813)

Holdover: ±0.05ppm (better than ITU G.813: ±0.37ppm) within 24 hours.

Provide sync signal for 3G Base Station: External timing output; Traceable STM-1 ATM interface as line timing source.

NETWORK MANAGEMENT

Qx, CLI

STANDARDS & RECOMMENDATIONS

IETF RFC3031, RFC3916, RFC 3985, RFC 4197, RFC 4553, RFC 4842, RFC 4717, RFC 4816, RFC 4448

ITU-T G.8110, G.8110.1, Y.1711, Y.1720

REGULATORY COMPLIANCES

CE, VCCI, FCC Part 15

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