

iTN8600 Series | Packet-based OTN platform

Product Overview

iTN8600 is a compact packet-based OTN platform which supports SDH services, GE/10GE/OTU1/OTU2/OTU2e data service and other data service with bit rate ranging from 2Mbps to 10Gbps aggregate to OTU2/OTN2e and has 120G packet switching capability.

iTN8600 offers multiple protection options for the OTN, SDH and Ethernet services to improve traffic and network reliability. Additionally, MPLS-TP OAM, 802.1ag/Y.1731/SLA OAM and 802.3ah OAM functionalities are provided for link diagnostic and troubleshooting. iTN8600 can be deployed in point to point and ring topology for various applications, such as service provider aggregation, government, enterprise and business connection, mobile backhauling and Big Data connectivity. It can be managed by a GUI-based NView NNM system to simplify configuration and monitor performance in real time.

Highlights

- Universal switching and flexible grooming for OTN, SDH, and packet services
- Huge packet switching capacity and cross-connection capability
- All types service access capability with E1, STM1/4/16/64, OC-3/12/48/192, FE/GE, 10GE LAN, 10GE WAN and OTU1/OTU2
- Stable and reliable network assurance with redundant power supplies, NMS cards, Ethernet switching protection, SDH protection and OTN protection
- Comprehensive hierarchical OAM solutions based on 802.3ah, 802.1ag and Y.1731 for OPEX reduction
- E-Line, E-LAN and E-Tree compliant
- Compact 2U modular design is suitable for providing value-added services with an economic budget
- Reduce massive and complex deployment and configuration with PTN service end-to-end management and zero-touch provisioning

Specifications

Packet switching capacity: 120G

iTN8000-II chassis:

Dimensions: 444(W) x 220(D) x 88.1(H) mm

Operating temperature: 0 to 45°C

Store temperature: -40 to +70°C

Humidity: 10 to 90% non-condensing

Lightning proof: differential mode:0.5kV, common mode:1kV

PSU: -40V to -47V DC

Weight: 3.45kg

Power consumption: ≤ 320W

iTN8600-II-NXU:

Console interface: 1 x mini USB

Remote management interface: 1 x RJ45 interface

Debug interface: 1 x RJ45

External clocking interface: 2 x CC3

Dimensions:193.8(W) x 208(D) x 19.8(H) mm

Operating temperature: 0 to 45°C

Store temperature: --40 to +70°C

Humidity: 10 to 90% non-condensing

Weight: 0.76kg

Power consumption: ≤ 48.2W

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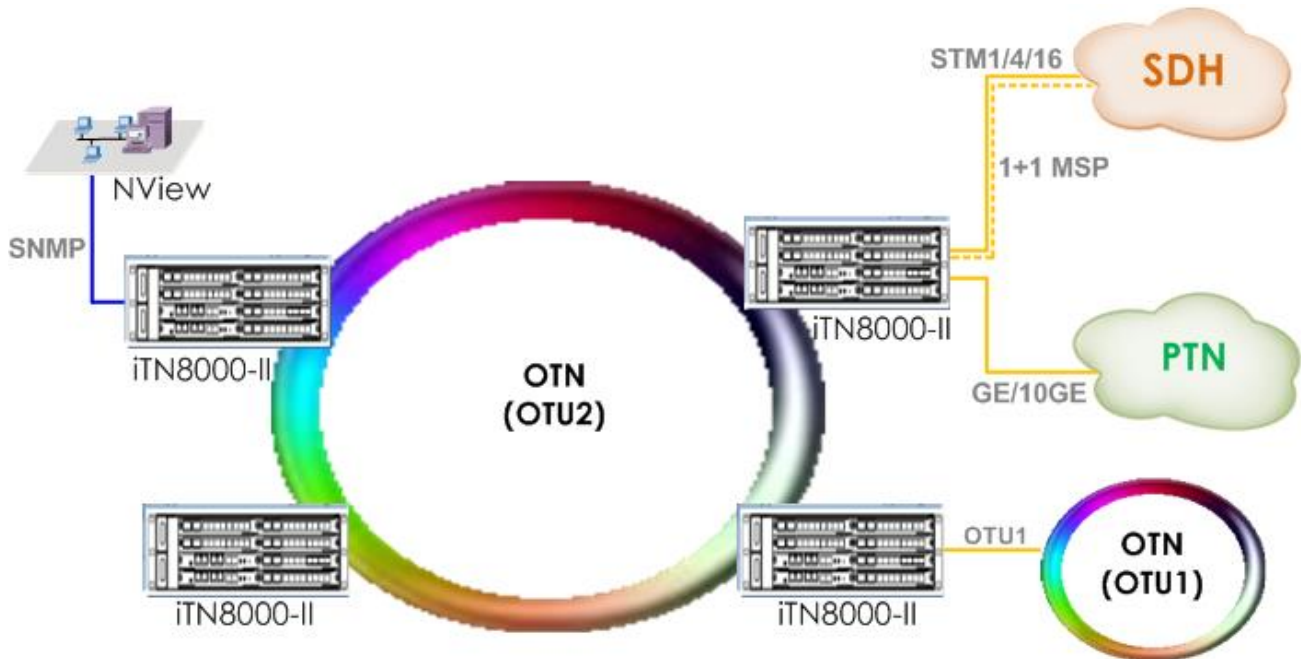


Figure.1 All Type Service Access over OTN

Slot Distribution

- Slot 1&2 for NMS board
- Slot 3-8 for service board
- Slot 9-10 for PSU
- Slot 11 for Fan module

Cross-connection Capacity

- 40G based on ODU0,ODU1
- 20G based on VC4 or 10G based on VC3/VC12

Service Access Capability

- Up to 4 x OTU2/OTU2e interface
- Up to 32 x FE/GE port or 8 x 10GE port
- Up to 8 x STM16 interface and 16 x STM1/4 interface
- Up to 64 x EOS interface (FE/GE port)

Ethernet

- Up to 32k MAC (black list supported)
- IEEE 802.1q VLAN, IEEE 802.1ad QinQ and flexible QinQ
- 1:1/ N:1 VLAN translation
- MAC based on VSI (visual switch interface)

- EPL, EVPL, EPLAN and EVPLAN compliant
- Interface protection& port monitoring

MPLS-TP

- Static LSP, L2VPN and VPLS
- Up to 4k LSP/PW and 512 LSP/PW protection
- PW 1:1 protection and dual-homing
- MPLS-TP OAM
- MPLS-TP LSP 1:1 protection
- MPLS-TP QoS

Ethernet OAM

- IEEE 802.3ah EFM-OAM link management
- IEEE 802.1ag connectivity fault management (CFM)
- ITU-T Y.1731
- Dying gasp message in case of power failure

Clock Synchronization

- 2Mbit/Hz external clock input/output#
- SSM protocol#
- SDH internal/ line clock

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Traffic Management

- Service classification per port/VLAN/CoS(DSCP)/ACL
- Support SP, WRR,DRR,SP+SRR and SP+WRR scheduling modes, and up to 8 queues per port
- MEF-compliant 3-color policing with color-aware and color-blind mode

Reliability

- Redundant NMS/PSU card
- OCh 1+1 protection
- Link aggregation group (LAG)
- SNCP based on VC4 or VC12/VC3;1+1 MSP
- Ethernet G.8031/G.8032 protection
- T-MPLS linear protection (G.8131)

Security

- Storm control (broadcast, multicast and DLF)
- ACL based on VLAN, IP or user-define combinations

System Management

- SFP digital diagnostic management (DDM)#
- PSU/Fan module status query and monitoring
- Alarm reported and performance monitoring
- Software upgrade online
- Remote management via SNMP and Telnet
- Local management via console interface
- In-band DCN

Standard Compliance

- ITU-T G.703, G.704, G.706,G.707,G.823, G.957
- ITU-T G.709, G.8251,G.959.1
- ITU-T G.825,G.783
- IEEE802.1Q (VLAN), 802.1ad (QinQ), 802.1ag (CFM), 802.3ad (LAG), 802.3ah (EFM),Y.1731
- G.8031 (ELPS), G.8032 (ERPS), G.8131

Ordering Information

- iTN8000-II-DC: 2U chassis with 1 x Fan module and

2 x DC power supply modules

- iTN8600-II-NXU: NMS card

Supplied Accessories (included):

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