



iTN8600-V Multi-Service OTN Platform

Raisecom's iTN8600-V is a new generation intelligent multi-service access and transmission platform, designed for future-proof networks. The iTN8600 series providing integrated 64K to 100G all-services access, is incorporated with OTN, Carrier Ethernet/MPLS-TP, SDH, PCM, and WDM services, flexible multi-core cross connection and scheduling.

Operators can use it to transport multiple types of services in one platform, including Leased-Line service, legacy SDH, as well as metro WDM/OTN services. It is a complete and ideal solution for metropolitan network access and aggregation.

Compatible with Raisecom's iTN8600, iTN860x, RAX series products, iTN8600 can be deployed in point-to-point and ring topologies for various applications. It can be managed by GUI-based Raisecom RCView NNM system to end-to-end configuration and performance monitoring in real-time.



iTN8600-V

Highlights >>

Multiple services

Featured with multi-plane, WDM, OTN (OSU included), L2/MPLS-TP switching, SDH and 64K/DS0 services, among which services can be grooming and switched. With distributed switching backplane design, customers can organize their different types of services flexibly.

Flexible chassis

5RU chassis for flexible configuration and deployment in multiple application scenarios

High capacity

15 service slots, maximum 96 wavelengths 100G/200G DWDM in one-pair optical fibers transmission

Overall access

Support services from 64 kbit/s to 100 Gbit/s.

Remote management

Support managing Raisecom's iTN860x, RAX devices remotely via in-band management channel, to provide a unified access network solution.

International Headquarters

Raisecom Building, East-11, No.10 Xibeiwang East Road,
Haidian District, Beijing, P.R.China, 100193

Tel: +86 10 8288 3305

Fax: +86 10 8288 3056

www.raisecom.com

Raisecom (USA) INC.

8850 Huffmeister Rd, STE 340, Houston, Tx 77095

[Tel: +17276985480](tel:+17276985480)

or +18137120338

Email: sales@raisecominc.com

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Applications >>

Multi-Service OTN Metro Access/Aggregation Networks

Multi-services Metro access/aggregation platform solution, which is built on iTN series intelligent products, providing an end-to-end integrated leased line solution that integrates WDM/OTN/SDH/PKT/PCM technology.

iTN8600-V provides various services convenient access to 10G or 100/200G DWDM/OTN networks, such as Ethernet, Fiber channel, OTN, SDH, E1, and FXS/FXO, etc. It is convenient and flexible to work with access devices, such as: iTN8600-E, iTN8607, iTN221, RAX700 series, all of them can be managed by unified network management to make the network easy to deploy and with full OAM function supported. It provides low latency and high reliability leased line access and aggregation services for the Metro networks and mission critical network application in different vertical markets.

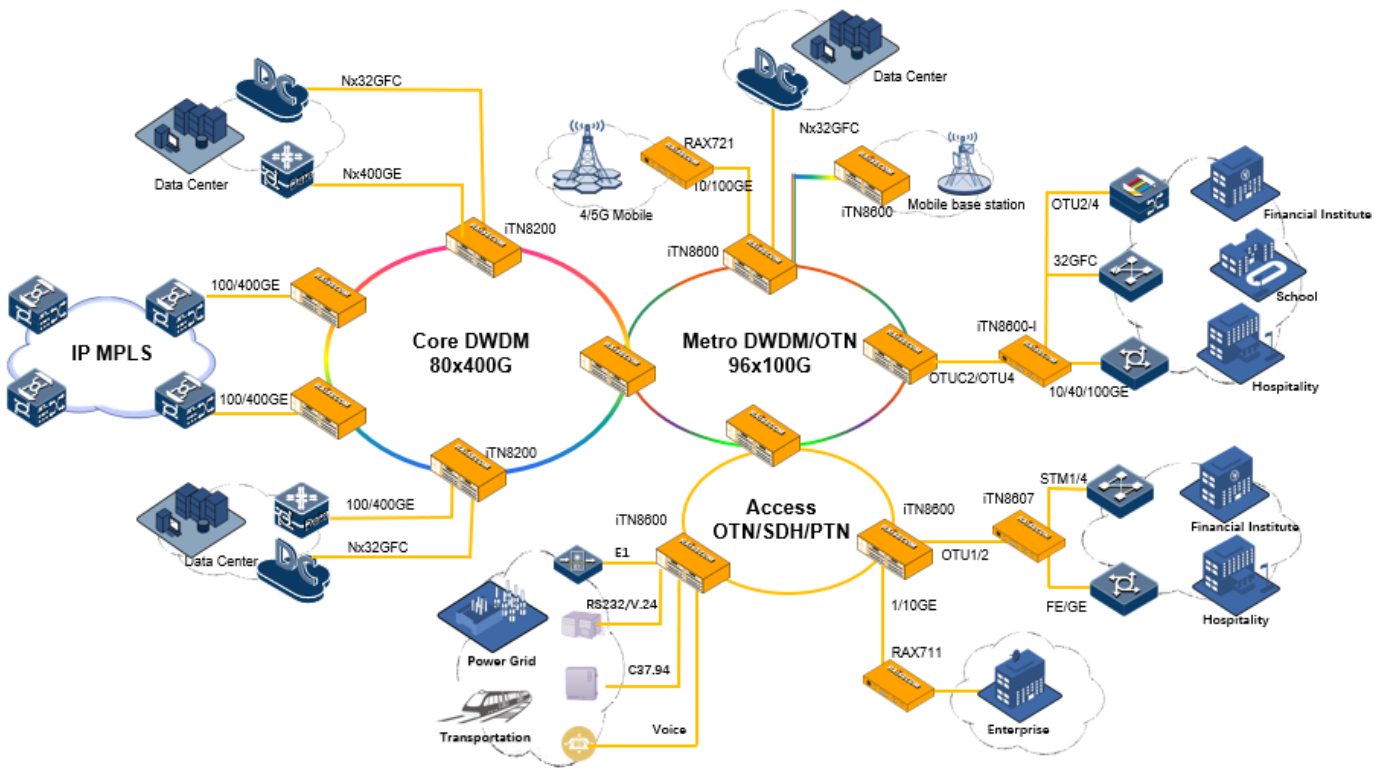


Figure 1 Typical application

SDH Migration to Next-Generation OTN/MPLS-TP Networks

Raisecom's iTN8600 series intelligent device support OTN/SDH/PKT/PCM technologies. It provides various services access to 10G

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OTN/MPLS-TP networks, such as 100M/1G/10G Ethernet, STM1/4/16 SDH, E1, and FXS/FXO/E&M/C37.94/C64K, etc. It's convenient and flexible to aggregate or groom services from access node, such as iTN8600-E, iTN221, and RAX711-L series products, and transmit on iTN8600-A/E for 10G OTN/MPLS-TP networks. For example, traditional power grid and transportation industry networks, it usually built with SDH equipment, but as customer need more business access capacity and larger capacity in nowadays. iTN8600-V provides an effective solution that fully utilizes existing network resources for the industry SDH networks and migration to next-generation OTN/MPLS-TP networks at the same time

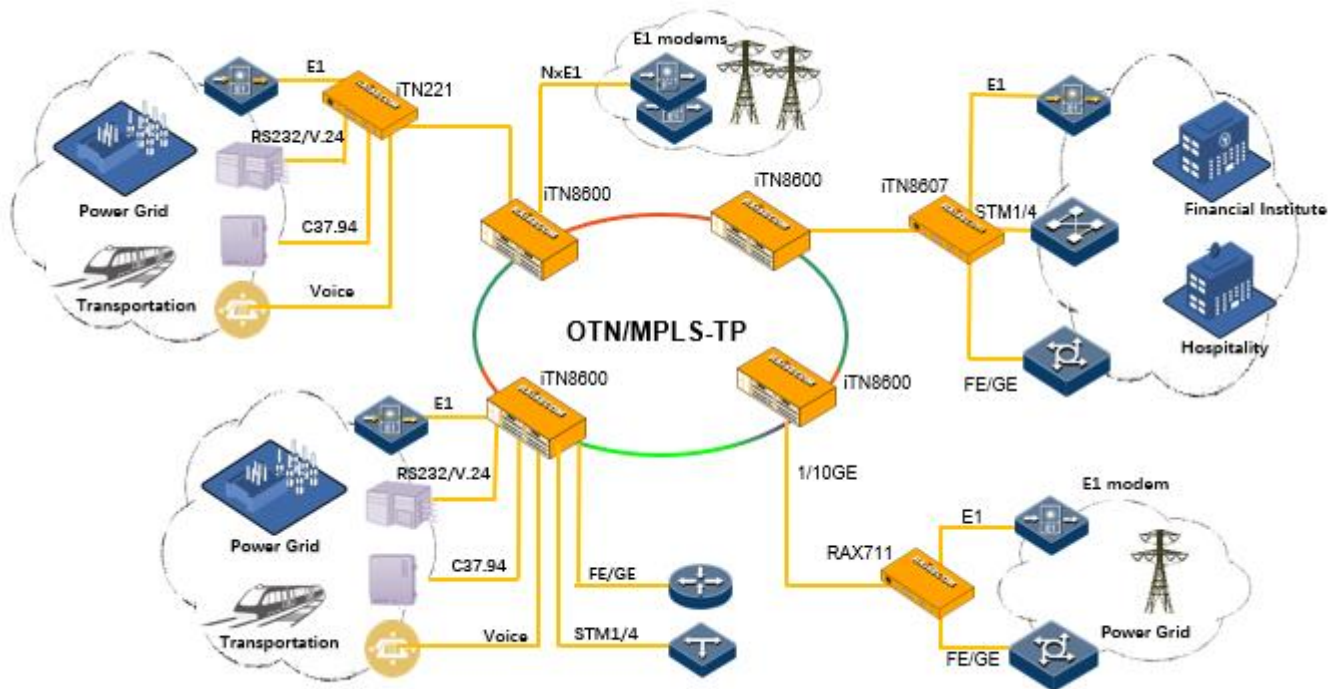


Figure 2 Typical application

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Key features >>

Chassis

- iTN8600-V: up to 15 service slots, 2 NMS card slots (1+1 redundancy), 2 power card slots (1+1 redundancy), 1 FANS card slot

CWDM/DWDM

- MUX/DEMUX/OADM:
 - CWDM 8 wavelengths MUX/DEMUX
 - DWDM 16/40/48/96 wavelengths MUX/DEMUX
 - DWDM 4/8 wavelengths OADM
- 10G/100/200G Transponder
- OA: BA/PA/LA
- OSC management channel
- 9-degree ROADM
- OCM/OTDR for convenient operation and maintenance
- OLP protection

Service capacity

- WDM: 8-wavelength CWDM, 96-wavelength DWDM
- Packet switch capacity: 280G
- 64K/DS0 Cross Connect: 1302x1302, with iTN8600-A-EXC module: 1953x1953

Service interfaces

- ETH: 100M,1GE,10GE,40GE,100GE
- SDH: STM-1/4/16/64
- PDH: E1
- PCM: FXS, FXO, MT, V.24, RS232, RS485, TP, E&M, C64K
- OTN: OTU0/1/2/OTU4/OTUC2.
- FC: FC-2/4/6/8/10G/16G/32G.
- Mobile: CPRI, OBSAI.

MPLS-TP

- Static LSP, L2VPN, and VPLS.
- MPLS-TP OAM.
- MPLS-TP protection.
- MPLS-TP services over OTN

OAM

- OTN: overhead, alarm, performance
- SDH: overhead, alarm, performance
- PKT: MPLS-TP OAM, Ethernet CFM, and 802.3ah OAM.
- WDM: OCM, OTDR

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Reliability

- 1+1 protection of the MCC and power card.
- OTN 1+1 OCh, ODUk SNC 1+1 protection.
- PTN MPLS-TP LSP/PW 1:1 protection.
- SDH 1+1 MSP and 1+1 SNC protection.
- G.8032 ERPS.
- LAG protection.
- OLP 1+1 protection.
- OCP 1+1 protection

Specifications >>

Dimensions (mm) 444x220x222.3mm (Width x Depth x Height)

Overall power consumption(W) ≤ 1070

- Power supply specifications**
- Input voltage (V):
 - DC rated voltage: -48V
 - AC rated voltage: 110/220V

- Operating conditions**
- Operating temperature (°C) (altitude: 0~1800 m): -5~50
 - Operating humidity: Long term: 10%-90% RH (non-condensing, indoor)

Ordering Information >>

Chassis	iTN8600-V-DC	iTN8600-V 5U chassis with dual DC power supply
	iTN8600-V-AC	iTN8600-V 5U chassis with dual AC power supply
NMS card	iTN8600-A-NXU	iTN8600-V main control card
OTN cards	iTN8600-AO2DE	8 x any service aggregation OTU2 card
	iTN8600-A-MX4	4 x OTU2 line card
	iTN8600-A-MA10	8 x OTU1 line card
	iTN8600-A-XT4D	100/200G OTN Muxponder card

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	iTN8600-A-TD5S	100/200G Transponder card
WDM card	MUX/DEMUX/OADM card	iTN8600-DM16E/DD16E: 16 CH DWDM MUX/DEMUX card
		iTN8600-DMU40/DDU40: 40 CH DWDM MUX/DEMUX card
		iTN8600-OMD8: 8 CH CWDM MUX + DEMUX
		iTN8600-DAD4D: 4 CH DWDM dual-fiber bidirectional OADM
		iTN8600-DAD8: 8 CH dual-fiber unidirectional OADM
		iTN8600-OPA: EDFA optical pre-amplifier card
	EDFA card	iTN8600-OBA: EDFA optical booster amplifier card
		iTN8600-OBA20: EDFA optical booster amplifier card
		iTN8600-OLA20: EDFA optical line amplifier card
		iTN8600-A-EOA-F12: Optical amplifier card, 9-15 dB gain
		iTN8600-A-EOA-F17: Optical amplifier card, 15-20 dB gain.
		iTN8600-A-EOA-F22: Optical amplifier card, 19-25 dB gain.
		10G transponder card
OLP card	iTN8600-OLP: Optical line 1+1 protection card	
OSC card	iTN8600-A-FDU: 2 x OSC multiplexing card	
	iTN8600-A-FDU-L*: 2 x long distance OSC multiplexing card	
ROADM card	iTN8600-A-TWS09: 9-degree ROADM card	
OCM/OTDR card	iTN8600-A-OTDR: 4 x optical channels OTDR card	
	OTA4-80: CFP2 module for OTDR card, need to work with iTN8600-A-OTDR card	
	iTN8600-A-OCM: 8 x optical channels optical power monitoring	
VOA card	iTN8600-A-VOA8: 8 x VOA card	
L2/MPLS-TP cards	iTN8600-A-PG8	8-way 1GE service interface card
	iTN8600-A-PX4	4-way 10GE service interface card
SDH cards	iTN8600-A-SH2	2-way STM-16, or 4-way STM4 , or 1-way STM16 + 2-way STM4 SDH aggregation card
	iTN8600-A-SH8	SDH mode(S): 8-way STM1/4 or 2-way STM16 SDH tributary card EOS mode(E): 8-way GE EOS tributary card

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	iTN8600-SE16	16-way E1 tributary card
PCM cards	iTN8600-AUDIO	16 x FXS/FXO/magneto telephone voice card
	iTN8600-RS24	16 x RS232, or 8 x RS485, or 8 x V.24 card
	iTN8600-8E&M	8 x E&M card
	iTN8600-A-TP	4 x C37.94 card
	iTN8600-A-16C64K	16 x C64K card
	iTN8600-A-EXC	64K cross-connect extender card

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