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iTN8600-I XT4D

The iTN8600-I-XT4D is an intelligent Transport Network (iTN) OTN product, used in cooperation with other OTN devices, such as the iTN8600. It provides customers with an OTN access transport platform with high-bandwidth uplink bearing and multiple types of accessed services, thus meeting requirements for ever increasing bandwidth and key-customer service bearing.

iTN8600-I-XT4D

Highlights >>

- Implement 40×100G OTN in cooperation with other OTN devices, such as the iTN8600.
- Support FEC and soft-decision FEC. Support 80-km, 1200-km, and 2500-km applications.
- Support accessing multiple types of services and flexibly scheduling and forwarding these services.
    - The line side supports the CFP2 optical module to transmit 2 ways of 100 Gbit/s OTU4 services.
    - The client side supports 100GE/OTU4/40GE/10GE services, STM-64/OC-192 services, OTU2/OTU2e services, and 8G/10G/16G FC services accessed by the QSFP28/QSFP+/SFP28/SFP+ optical module.
    - The OTN cross capacity is 400 Gbit/s.
- The iTN8600-I or iTN8600-A and iTN remote devices support uniform network management, so they support services accessed through end-to-end management.
- The iTN8600-I-XT4D supports the following access modes:
    - Client-side 20×10G ANY   <->   line-side 2×OTU4, supporting ODU0/1/2/2e/flex mapping aggregation
    - Client-side 20×OTU2   <->   line-side 2×OTU4, supporting ODU0/1/2/2e/flex mapping aggregation
    - Client-side 12×16G FC   <->   line-side 2×OTU4
    - Client-side 2×100GE   <->   line-side 2×OTU4
    - Client-side 2×OTU4   <->   line-side 2×OTU4
    - Client-side 12×10G ANY + 2×40GE   <->   line-side 2×OTU4

Applications >>

Point-to-point long-distance transmission

This application provides high-bandwidth users, such as the data center, with an optical transmission solution of high bandwidth and long distance, supports the 40×10/100G hybrid transmission system, and supports the transmission distance of up to 2500 km.
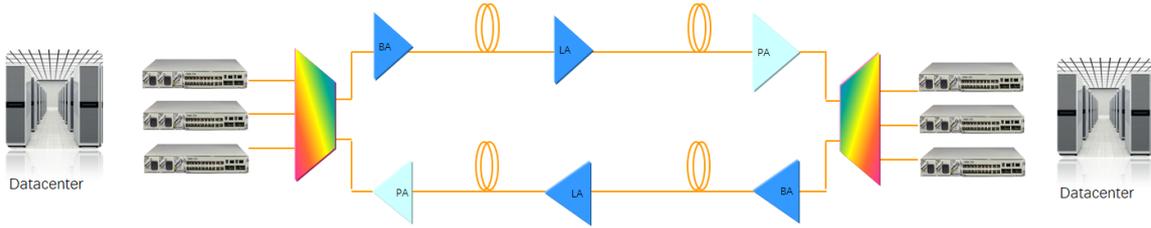
Figure 1 Point-to-point long-distance transmission

Access-type OTN application

The iTN8600-I-XT4D, as an access-type OTN device, can be directly connected to the iTN8600 series or customer devices with services of multiple types of rates, and access and carry high-bandwidth services.
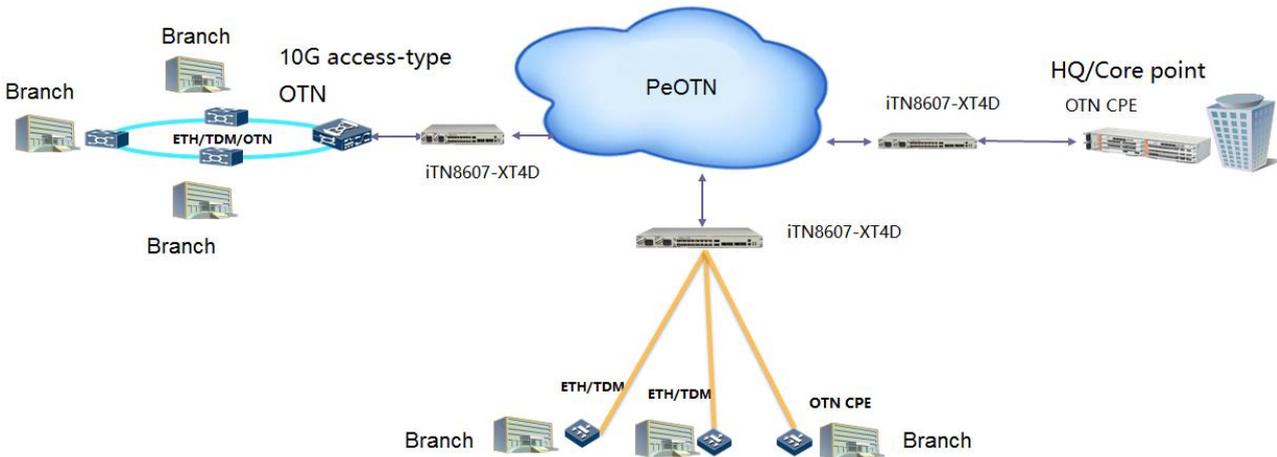

Figure 2 Access-type OTN application

100G comprehensive service bearer network

The iTN8600-I-XT4D, as a comprehensive service bearer device, forms a 100G CN, with N*10G access rings connected downstream. It and these rings form the industry bearer network.
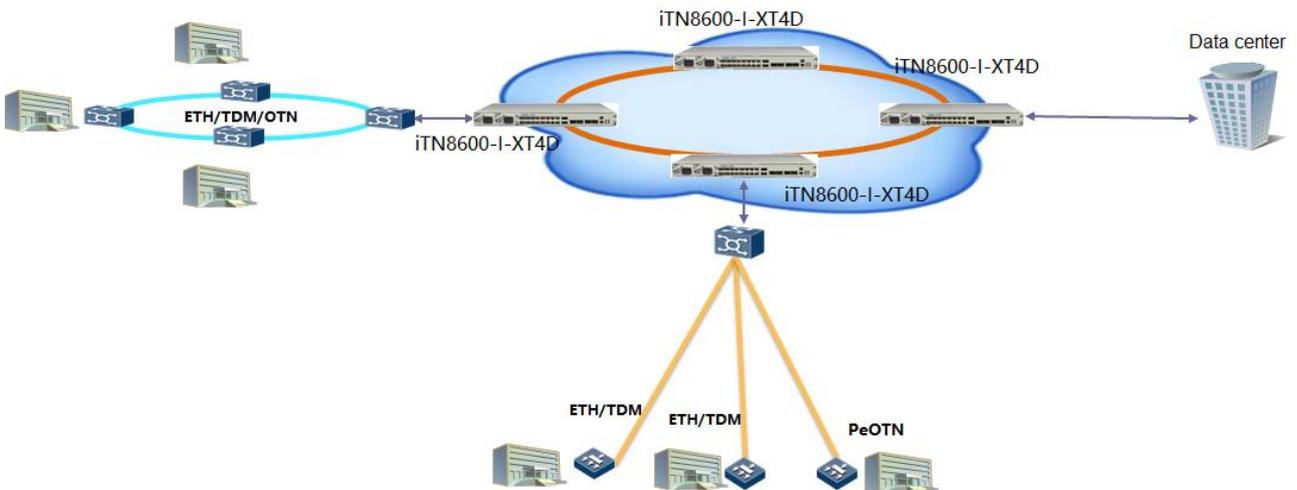

Figure 3 100G comprehensive service bearer network

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Key features >>

Line-side optical module	CFP2, using the CFP2_DCO service interface, compatible with CFP2 OTU4 LR4（preferential）/ER4/SR4
Client-side optical module	• SFP • SFP2 • QSFP • QSFP28
Line rate	10 Gbit/s or 100 Gbit/s
Service types	10GE, STM64, OTU2/2e, 8/10/16G FC, 40GE, 100GE, and OTU4
Protection type	• Line-side interface OCH 1+1 (OTU2/4) protection • ODUk SNCP (/I/N/S) • ODUk SNCP/OCH 1+1 on both the client-side OTN interface and line-side OTN interface • Client-side interface protection (10GE, STM64/OC192, FC8G, FC10G, FC16G, 40GE, and 100GE) • Protection switching time: < 50ms

Specifications >>

Dimensions (mm)	440×360×45 (Width × Depth × Height)
Overall power consumption	< 150 W
Power supply specifications	DC: -48 V; AC: 100–240 V
Operating conditions	Operating temperature: • Normal operating temperature: -5 to 55˚C • CWDM4 QSFP28: -5 to 50˚C • ER4 QSFP28 module: -5~45˚C Operating humidity: 10%–90% (non-condensing)

Standards and protocols >>

Standards and protocols	• ITU-T G.709 • ITU-T G.798

Ordering information>>

iTN8600-I-XT4D-DC	iTN8600 100G OTN device, using the DC power
iTN8600-I-XT4D-AC	iTN8600 100G OTN device, using the AC power