



## iTN8600-I-TQ5D

iTN8600-I-TQ5D (service card) is an intelligent transport network series OTN product, which meets the application requirements of DCI (Data Center Interconnect) and cloud services, and provides customers with OTN access based on high-density interface access and high-bandwidth uplink bearer. Into the transmission platform to meet the ever-increasing demand for bandwidth and the needs of large customer services.

Each TQ5D service card can support 2\*200G DCO CFP2 and 4\*100G QSFP28. and iTN8600-I chassis can support 4\*TQ5D service card. so the total capacity of iTN8600-I (with 4\*TQ5D) is 1.6T.



Front Panel of iTN8600-I-AC/ iTN8600-I-DC



Rear Panel of iTN8600-I-AC



Rear Panel of iTN8600-I-DC



iTN8600-I-DC

### Highlights >>

- High integration, 19" ,1RU, it can support 40\*100G/200G OTN optical transmission applications;
- Support GFEC and Soft-Decision FEC, which can realize 1200km application;
- 1RU space supports 4 service cards, and each service card supports 4\*100GE/OTU4 <-> 2x coherent 100G/200G;
- 1RU space supports up to 16 \*100GE/OTU4 <-> 8 \* 200G applications.

Note: When line side using 100G DCO CFP2, client side will work on port 1 and port 3. C1<->L1, C3<->L2.

This function will be released in the future.

### Applications >>

#### Point-to-point transmission for DCI

The iTN8600-I-TQ5D is used as a data center interconnection device. The client side provides 100GE/OTU4 interfaces, and the line side provides 200G interfaces to provide customers with large-scale business access and bearer.



Figure 1 Point-to-point transmission

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## Point-to-point long-distance transmission For DCI

This application provides high-bandwidth users, such as the Data Center, with an optical transmission solution of high bandwidth and short/long distance, supports the 40×100G/200G hybrid transmission system, and supports the transmission distance of up to 2400 km. For 200G mode, it is up to 1200km.

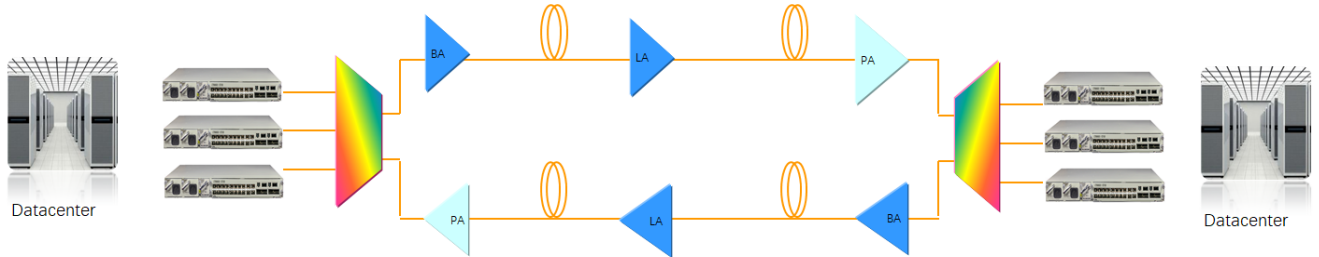


Figure 2 Point-to-point long-distance transmission

### Key features >>

Line-side optical module	100G CFP2 DCO*(support in the future) 200G CFP2 DCO
Client-side optical module	● QSFP28
Line rate	OTU4, 2 x OTU4
Client Service types	100GE, and OTU4
Service Mapping	<ul style="list-style-type: none"> <li>● The client side 100GE service is mapped to the line side OTU4 through GMP;</li> <li>● The client side OTU4 service is mapped to the line side OTU4;</li> <li>● C1 and C2 on the client side are fixedly mapped to L1, and C3 and C4 are fixedly mapped to L2.</li> </ul>

### Specifications >>

Dimensions (mm)	442.4×440×44 (Width × Depth × Height)
Weight(kg)	<23
Overall power consumption(W)	< 350
Power supply specifications	DC: -48V DC, -40~-57V DC,10A AC: 110/220V AC,100~240VAC,5A
Operating conditions	Operating temperature: -5 to 45°C Operating humidity: 10%–90% (non-condensing)

### Standards and protocols >>

- ITU-T G.709
- ITU-T G.695

### Ordering information>>

iTN8600-I-DC	iTN8600-I chassis, 1U ,19", dual DC power supply
iTN8600-I-AC	iTN8600-I chassis, 1U ,19", dual AC power supply
iTN8600-I-TQ5D	100/200G OTN service card, 4*QSFP28(100GE/OTU4) on client port, 2*DCO CFP2 (100G/200G).

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iTN8600-I chassis can support up to 4 service cards

RPA1351-220S12	AC power Module for iTN8600-I-AC, 110/220V AC
RPD1401-48S12	DC power Module for iTN8600-I-DC, -48V DC
FANS383	Fan Module for iTN8600-I-DC/iTN8600-I-AC
UC2-100G/LR4	CFP2 packaging, compatible with 103.1 Gbit/s and 111.8Gbit/s, 10 km, dual fibers, LC interface, with wavelength of 1295.56/1300.05/1304.58/1309.14nm, commercial, DDM, RoHS
UC2-100G/ER4	CFP2 packaging, compatible with 103.1Gbit/s and 111.8Gbit/s, 40 km, dual fibers, LC interface, with wavelength of 1295.56/1300.05/1304.58/1309.14nm, commercial, DDM, RoHS
UC2-100G/DCO*	CFP2 packaging, compatible with 103.1Gbit/s and 111.8Gbit/s, 2400 km, dual fibers, LC interface, with wavelength of 1528.77 (196.10 THz) to 1567.54 (191.25 THz), commercial, DDM, RoHS
UC2-100G/DCO-E	CFP2 packaging, with EDFA and VOA at TX side, compatible with 103.1Gbit/s and 111.8Gbit/s, 2400 km, dual fibers, LC interface, with wavelength of 1528.77 (196.10 THz) to 1567.54 (191.25 THz), commercial, DDM, RoHS
UC2-200G/DCO	CFP2 packaging, compatible with 103.1'2Gbit/s and 111.8'2Gbit/s, 1200 km, dual fibers, LC interface, with wavelength of 1528.77 (196.10 THz) to 1567.54 (191.25 THz), commercial, DDM, RoHS
UC2-200G/DCO-E	CFP2 packaging, with EDFA and VOA at TX side ,compatible with 103.1'2Gbit/s and 111.8'2Gbit/s, 1200 km, dual fibers, LC interface, with wavelength of 1528.77 (196.10 THz) to 1567.54 (191.25 THz), commercial, DDM, RoHS
UQP-100G/SR4	QSFP28 packaging, 100 Gbit/s, 0.1 km, MPO12 interface, with wavelength of 850 nm, commercial, DDM, RoHS
UQP-100G/LR4	QSFP28 packaging, 100 Gbit/s, 10 km, dual fibers, LC interface, with LAN-WDM wavelength of 1295.56/1300.05/1304.58/1309.14 nm, commercial, DDM, RoHS
UQP-100G/ER4L	QSFP28 packaging, 100 Gbit/s, 30 km, dual fibers, LC interface, with LAN-WDM wavelength of 1295.56/1300.05/1304.58/1309.14 nm, commercial, DDM, RoHS

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