RAISECOM

Raisecom Technology Co., Ltd

iTN8800-E

The iTN8800-E is a multi-service and large-capacity packet access device recently launched by Raisecom. The device uses IP MPLS technology as the core, provides multiple interfaces, such as 100GE, 25GE, 10GE, GE/FE, supports unified management with Raisecom rich terminal devices, and implements comprehensive access and unified bearer of multiple services, such as mobile data backhaul, enterprise digital private line, Internet and cloud private line, and high-definition video monitoring.
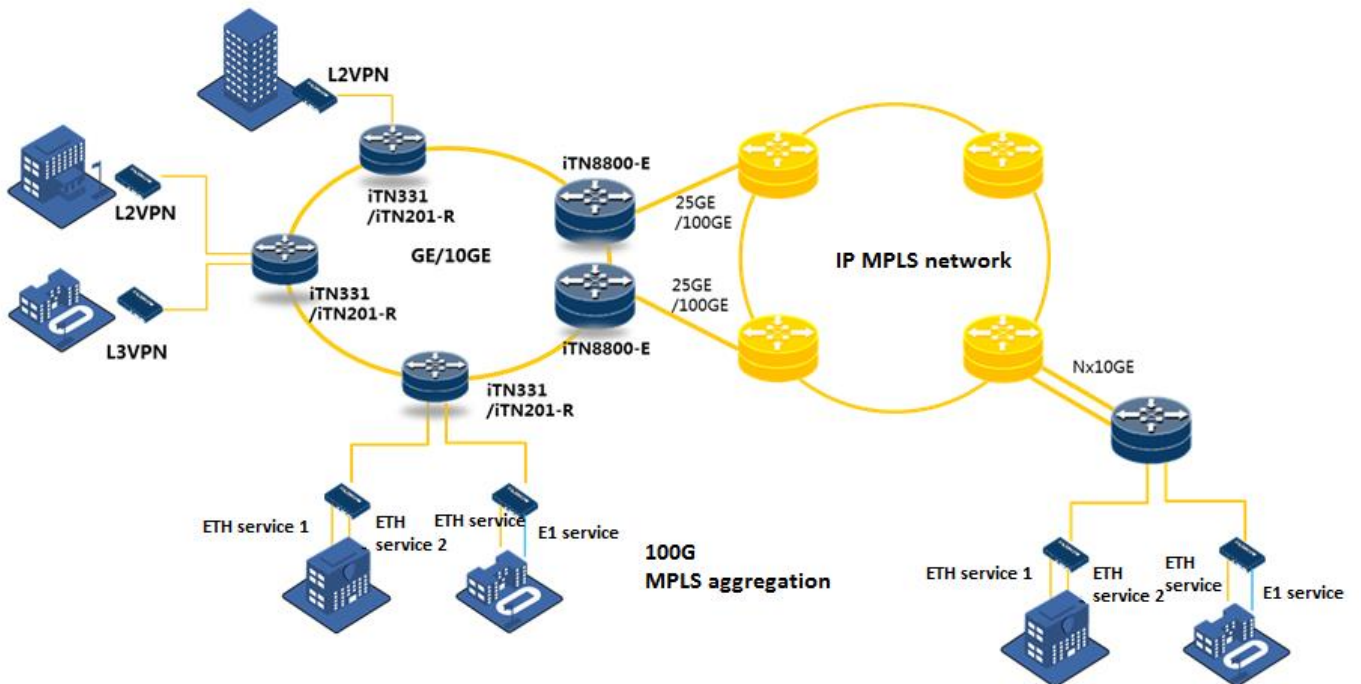
iTN8800-E

Features >>

- Small size: 3U high, standard 19-inch rack-mounted device, suitable for 300mm deep cabinets
- 1+1 protection of the main control card and power supply, rich service protection capabilities, and sub-50ms protection switching time
- Large capacity: 360G packet switching capability, up to two 100GE or eight 25GE interfaces
- Rich service capabilities: 10GE, GE/FE, E1, and other service interfaces
- Complete L2 & L3 technology, IPv4 and IPv6 dual stack
- WDM, flexible networking
- SyncE and IEEE 1588v2 high-precision clock synchronization
- Long-term evolution of new technologies, such as SDN and EVPN

Application scenario >>

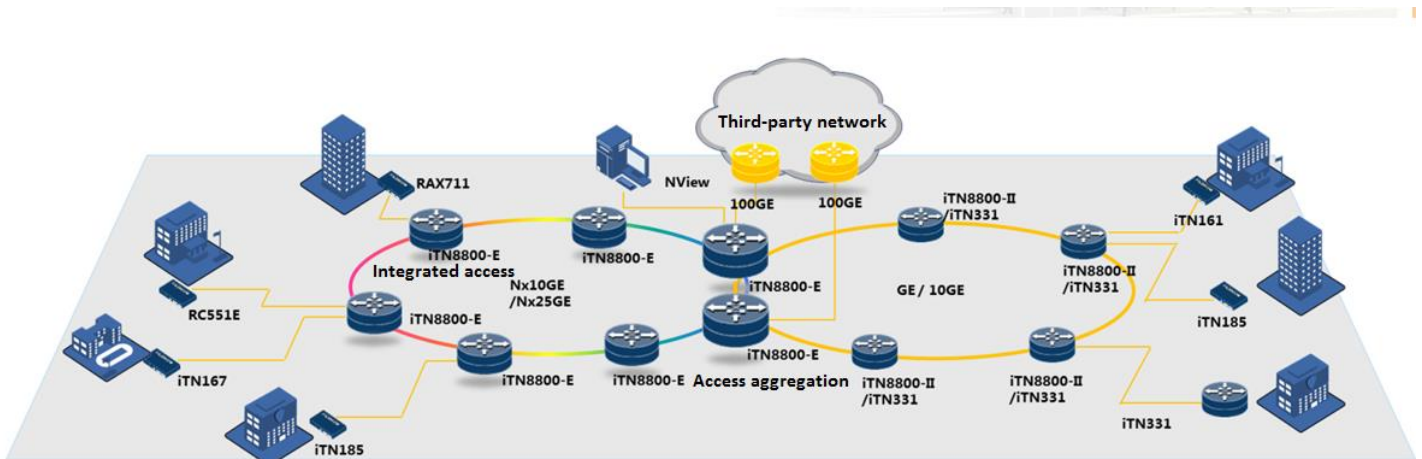**Figure 1 Integrated access and aggregation of multiple services**

Key features >>

Parameter	Description
Switching capacity	360 Gbit/s
Slots	2 MCC slots and 10 service slots
Dimensions (W × D × H)	444 mm ✕ 220 mm ✕ 133 mm
Height (U)	3U
Interface type	• 100GE, 25GE, 10GE, and GE/FE • E1 (to be supported in later versions)
Interface density	• Two 100GE interfaces, eight 25GE interfaces, or thirty-two 10GE interfaces • Sixteen 10GE interfaces + Forty-eight GE/FE interfaces
L2 features	• IEEE 802.1q, IEEE 802.3ad, IEEE 802.1ab, port mirroring, and so on • IEEE 802.3ah, IEEE 802.1ag, ITU-T Y.1731, and IETF RFC2544
L3 features	• Complete IPv4 routing protocols, including OSPF, IS-IS, BGP4, and static route protocol • Complete IPv6 routing protocols, including OSPFv3, IS-ISv6, BGP4+, and static route protocol • IPv6 and IPv4 dual stacks • Dynamic and static ARP, and DHCP
MPLS features	• LDP and L2VPN (VPWS/VPLS) • MPLS/BGP L3VPN
QoS	• DiffServ mode based on traffic class, and traffic classification based on VLAN, IEEE 802.1p, or VLAN+IEEE 802.1p • WRED and CAR rate limiting (RFC2697, RFC2698, RFC4115, and MEF10) • Traffic shaping based on interface and 8 priority queues on each interface • SP, WRR, DRR, SP+WRR, and SP+DRR scheduling modes, and MPLS QoS and MPLS H-QoS
OAM	• IEEE 802.3ah, IEEE 802.1ag, and ITU-T Y.1731 • BFD for IP/RSVP/LDP/LSP/PW/VRRP/OSPF/ISIS/BGP
Network reliability	• LAG/LACP, master/slave Trunk, G.8032, and VRRP • TE FRR, TE hot standby, LSP1:1, and PW redundancy
Clock synchronization	• SyncE • IEEE 1588v2
Power supply	DC: -48 V (-40 to -57 V)
Overall power consumption	< 300 W
Environment	• Operating temperature: -5 to 45°C • Relative humidity (long term): 10%–90% RH (indoor, non-condensing)

Ordering information>>

iTN8800-E-DC	iTN8800-E chassis, including the fan and 2 DC power supplies
iTN8800-E-NXU	iTN8800-E network management switching card, supporting device management, clock management, and

network management communication, supporting processing PS services, supporting 1+1 hot backup for

master/slave network management switching cards

iTN8800-A-RC1	1-interface 100G Ethernet service card
iTN8800-A-RK4	4-interface 25G Ethernet service card
iTN8800-A-RX4	4-interface 10G Ethernet service card
iTN8800-A-RG8	8-interface GE service card