

GPN7600

Overview

GPN7600 is a kind of central office equipment and can achieve various serve such as TDM service to meet the needs of access layer.



Features

- ◎ Diversity
Converged TDM, IP-MPLS / MPLS-TP, WDM, OTN technology
- ◎ Integration
19 inches chassis,
- ◎ Security7U and supports up to 200 light directions.
Support protection of inner board, between board and two-way service.
- ◎ Various modes board
Service boards support a variety of modes, and service port can be configured independently to adapt to the various needs
- ◎ Flexible scheduling Networking
Support ring network, satellite network, and chain network.
- ◎ Multi-service transport capabilities
Support 2-1000M and various size of broadband access which covering V.35, E1, FE and GE.
- ◎ Support 802.3ah, 802.1ag, Y.173 and MPLS-TP.
- ◎ provide Ethernet network management to support cascade. Provide built-in network management DCN channels and in-band DCN channels



- ◎ All boards support hot-swappable disks and can be mixed.
- ◎ Performance Measurement and convenient network management
Support performance testing requirements of RFC2544 to meet the ping and Trace based on PW and LAP. Support hardware loopback, spontaneous packet and BFD for PW. And network management can achieve self-taught.
- ◎ Provide unique "SAVE" energy-saving mode.

Technical specifications

Technical specifications			
Slot number	23	Service module number	16
Main control module	2		
Fan module	3	Power supply module	2
Console interface	Physical interface:	Electric lever:	Baud rate:
Physical specifications			
Dimension(mm) (W*D*H)	442*257*308		
Environment	Working temperature: 0°C~50°C Storage temperature: -20°C~+70°C Humidity: 95%(non-condensing)		
Weight	Rack frame: ≤10kg Overall: ≤30kg		
Power consumption	≤300W		
Power supply	AC220V and DC -48V Support backup protection		
Reliability	System availability: 0.9999965 The annual average return rate: less than 1.5% System mean time to repair (MTTR): 1 hour System Mean Time Between Failures (MTBF): 33.08 years		
Packet performance			
MPLS processing capability	Establish ways: static LSP Protection: 1 + 1 or 1: 1 MPLS Tunnel APS OAM: Support for MPLS-TP OAM, compliance with ITU-T G.8113 standard.		
PWE3 processing capacity	Service Type: TDM PWE3 (CES) services and ETH PWE3 services Establish ways: static PW Protection: 1 + 1 or 1: 1 PW APS		



	Support PW OAM, compliance with ITU-T G.8113 standard.
Protection	Support LAG and TRUNK
Synchronize	Support G.8261 and G.8262 Port receive/transmit synchronous Ethernet clock: GE / 10GE Supports input / output SSM message Clock frequency stability (tracking mode): Less than 50ppb
OAM	MPLS OAM: include Tunnel OAM and PW OAM
	ETH OAM: © IEEE 802.1ag OAM Provide management of OAM maintenance point, CC (Continuity Check), LB (Loopback) and LT (Link Trace). © IEEE 802.3ah OAM Provide link performance monitoring, fault detection, remote loopback, loopback testing and loopback port blocking.
QoS	.DiffServ: Support of QoS based on packet information (including CVLAN priority, SVLAN priority and DSCP value) and PHB service. Complex traffic classification: support classification under the CVLAN ID, SVLAN ID, CVLAN priority, SVLAN priority, CVLAN ID + CVLAN priority, SVLAN ID + SVLAN priority, and packets DSCP. Support CAR and specified PORT. Queue scheduling: SP / WRR / SP + WRR
TDM performance	
Protection	SNCP: Supports VC-12 / VC-4 level SNCP protection Protection switching time $\leq 50\text{ms}$ Ring MSP: Support STM-1 / STM-4 / STM-16 level MSP ring Protection switching time $\leq 50\text{ms}$ Linear MSP: Support STM-1 / STM-4 / STM-16 level linear MSP Protection switching time $\leq 50\text{ms}$
Synchronic	Support tracking, maintaining, and oscillations. Standard SSM protocol Support branches retiming.



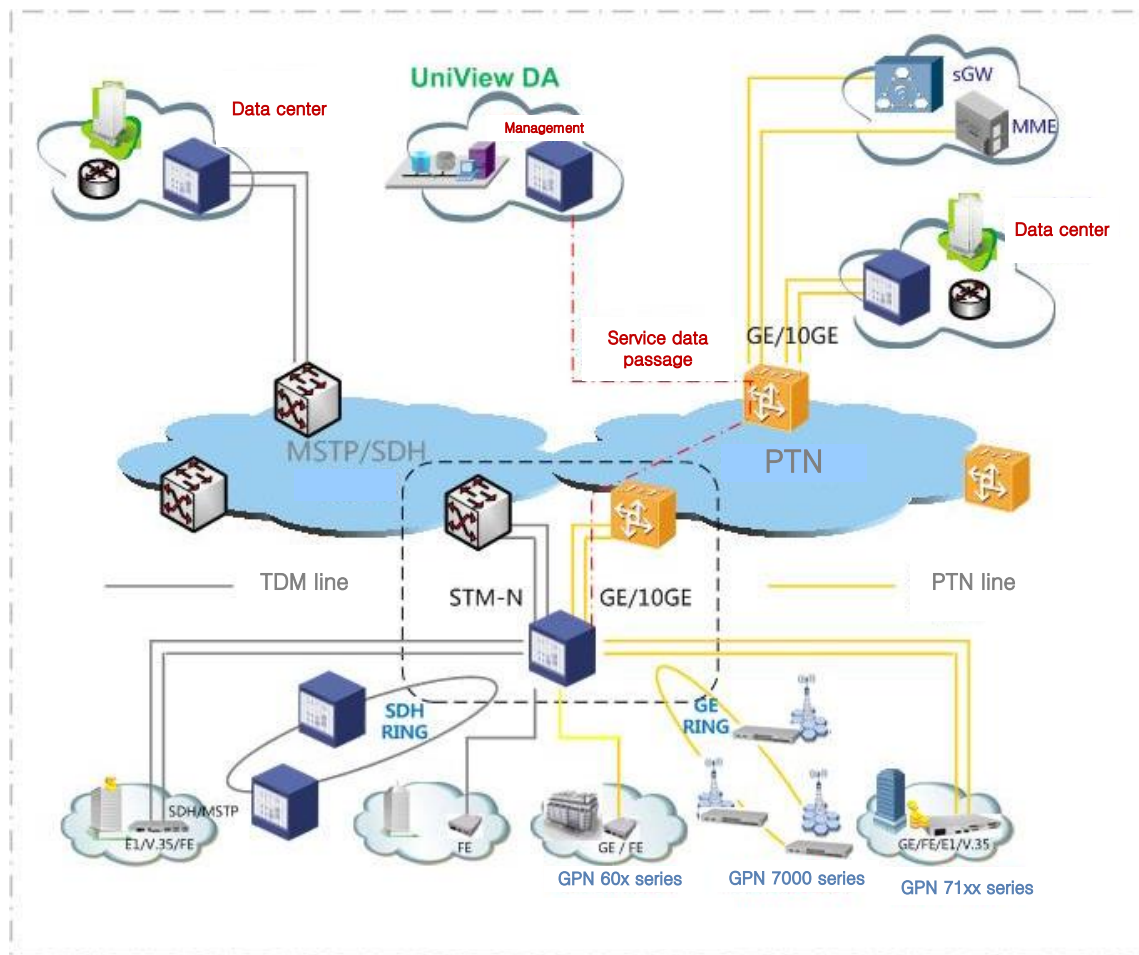
Ordering information

Product information		Description	Part number	Support/Remark
GPN7600 setup	Must be equipped	Frame	GPN7600	Large capacity
		Main control module	NUM	1+1 protection is available
		Power supply module	PWU-DC	-48V
	PWU-AC		220V	
Optional	Fan module	FAN	Replaceable	
The crosses module	Optional	2 * STM-1 optical interface	2 * STM-1	Uplink capacity
		4*STM-1 optical interface	4*STM-1	Uplink capacity
		2*STM-4 optical interface	2*STM-4	Uplink capacity
		4*STM-4 optical interface	4*STM-4	Uplink capacity
Packet switching module	Optional	4*GE optical/ electric	4*GE	Provide switching, OAM and MPLS-TP.
		2*10GE optical/ electric	2*10GE	Provide switching, OAM and MPLS-TP.
PDH optical tributary	Optional	4	4*PDH	GW [®] A,E series optical terminal
EoS branches	Optional	4	4*FX	GFT1501 fiber Transceiver
		8	8*FX	
		8	8*FE	
Eop branches	Optional	4	4*FX	GFT1501 fiber Transceiver
		8	8*FX	
		8	8*FE	
Collective module	Optional	Provide 1 GE optical/ electric interface to collect 63 VCG paths	1*GE Combo	
STM-1 optical path	Optional	4	4*STM-1	E6080 series remote MSTP
		8	8*STM-1	
STM-4 optical path	Optional	4	4*STM-4	E6000 series remote MSTP
Packet service	Optional	8	8*FX	GFT1501 series fiber



module			transceiver and GPN6000 series smart terminal.
	4	4*GE	GFT1501 series fiber transceiver, GPN6000 series smart terminal, and GPN700 series packet terminal.

Applications



GPN7600 is the extension of aggregation network and designed for access network. GPN7600 can match aggregation network whatever the condition it is. It can provide flexible multi-service for customers.