



PRODUCT DATA SHEET

8 Ports Cassette GPON OLT

Introduction

NTFG3408P provides 8 GPON ports, 4*GE Combo and 2*10GE SFP+ uplink ports to meet for the increasing demand on high-bandwidth from end user, With the 1RU cassette design and redundant 2 slots making NTFG3408P to be flexible deployment and multifunctional. Built as the compact GPON OLT platform using Broadcom chipset designed for different type carrier in ISP market, the reliable testing of MTTH and MTTB ensure the NTFG3408P working stably and smoothly.



Support Power Redundancy Support 10GE Uplink

Support Rich L2/L3 switching function (Static QINQ and Flexible QINQ); Powerful Multicast services capabilities (IGMPV1/V2/V3, IGMP snooping, MVR multicast); Support DHCP option 82 and PPPOE+

Technical Specification

Switching capacity	102Gbps	
Throughput	75.88MPPS	
(IPv4/IPv6)		
Ports	8*PON port,4*GE combo,2*10GE SFP+	
Power redundancy	Dual power supply. Can be double AC, double DC or AC+DC	
Power supply	AC: Input 100~240V,47~63Hz;	
	DC: Input -36V~-75V;	
Power consumption	≤85W	
Outline dimensions	440mm×44mm×380mm	
(mm) (W*D*H)		
Weight	<= 8KG	
(in maximum config)		
Environmental	Working temperature: -15 ^o C~55 ^o C	
requirements	Storage temperature: -40°C~70°C	
	Relative humidity: 10%~90%, no condensing	

















Business Features

Business Feat		
PON features	GPON	Satisfy ITU -T standard TR-101 compliant solution for FTTx OLT applications High splitter rate, each PON port supports 32*ONU ,96*T-CONT Maximum transmission distance of 20KM Support uplink FEC, downlink FEC(Forward Error Correction) ONU identifier authentication :SN /SN+PASSWD Bandwidth allocation mechanism 5 types of T-CONT bandwidth Static Bandwidth Allocation Dynamic Bandwidth Allocation GPON feature parameter 4096 port-IDs per GPON MAC (Downstream and Upstream) 1024 Alloc -IDs per GPON MAC (Upstream)
L2 features	MAC	MAC Black Hole
		Port MAC Limit
	VLAN	4K VLAN entries Port-based/MAC-based/IP subnet-based VLAN Port-based QinQ and Selective QinQ (StackVLAN) VLAN Swap and VLAN Remark and VLAN Translate GVRP Based on ONU service flow VLAN add, delete, replace
	Spanning	IEEE 802.1D Spanning Tree Protocol (STP)
	tree	IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
	protocol	IEEE 802.1s Multiple Spanning Tree Protocol instances (MSTP)
	Port	Bi-directional bandwidth control Static link aggregation and LACP (Link Aggregation Control Protocol) Port mirroring and traffic mirroring
		Anti-ARP-spoofing
Security Features	User Security	Anti-ARP-flooding IP Source Guard create IP+VLAN+MAC+Port binding Port Isolation MAC address binds to port and port MAC address filtration IEEE 802.1x and AAA/Radius authentication TACACS+ authentification dhcp anti-attack flood attack automatic suppression ONU isolation control
	Device security	Anti-DOS attack(such as ARP,Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack SSHv2 Secure Shell SNMP v3 encrypted management Security IP login through Telnet Hierarchical management and password protection of users













		Hearthand MAC and ADD traffic accessing the
		User-based MAC and ARP traffic examination
		Restrict ARP traffic of each user and force-out user with abnormal ARP
		traffic
		Dynamic ARP table-based binding
		Supports IP+VLAN+MAC+Port binding
		L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of
Security	Network security	user-defined packet
features		Port-based broadcast/multicast suppression and auto-shutdown risk port
		URPF to prevent IP address counterfeit and attack
		DHCP Option82 and PPPoE+ upload user's physical location
		Plaintext authentication of OSPF, RIPv2 and MD5 cryptograph
		authentication
		ARP Proxy
		DHCP Relay
	IPv4	DHCP Server
	IF V4	Static route
		ICMPv6
IP routing		ICMPv6 redirection
ii rodding	IPv6	DHCPv6
		ACLv6
		Configured Tunnel
		6to4 tunnel
		Ipv6 and IPv4 Tunnels
		Standard and extended ACL
		Time Range ACL
		Packet filter providing filtering based on source/destination MAC
	ACL	address, source/destination IP address, port, protocol, VLAN, VLAN
	ACL	range, MAC address range, or invalid frame. System supports concurrent
Security Features		identification at most 50 service traffic
		Support packet filtration of L2~L7 even deep to 80 bytes of IP packet head
		Rate-limit to packet sending/receiving speed of port or self-defined flow
		and provide general flow monitor and two-speed tri-color monitor of
		self-defined flow
		Priority remark to port or self-defined flow and provide 802.1P, DSCP
	QoS	priority and Remark
		CAR(Committed Access Rate). Traffic Shaping and flow statistics
		Packet mirror and redirection of interface and self-defined flow
		Super queue scheduler based on port and self-defined flow. Each port/
		flow supports 8 priority queues and scheduler of SP, WRR and SP+WRR.
		Congestion avoid mechanism, including Tail-Drop and WRED

















		IGMPv1/v2/v3
		IGMPv1/v2/v3 Snooping
		IGMP Filter
		MVR and cross VLAN multicast copy
		IGMP Fast leave
	Multicast	IGMP Proxy
Security		PIM-SM/PIM-DM/PIM-SSM
features		PIM-SMv6、PIM-DMv6、PIM-SSMv6
10010100		MLDv2/MLDv2 Snooping
	MPLS	NPLS LDP
	Loop	EAPS and GERP (recover-time <50ms)
	protection	Loopback-detection
	Link Protection	FlexLink (recover-time <50ms)
		RSTP/MSTP (recover-time <1s)
Reliability		LACP (recover-time <10ms)
remability		BFD
	Device	VRRP host backup
	protection	Double fault-tolerant backup of host program and configuration files
		1+1 power hot backup
		Telnet-based statistics
	Network maintenance	RFC3176 sFlow
		LLDP
		802.3ah Ethernet OAM
Maintenance		RFC 3164 BSD syslog Protocol
		Ping and Traceroute
	Device management	Command-line interface (CLI), Console, Telnet and WEB configuration
		System configuration with SNMPv1/v2/v3
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		NTP (Network Time Protocol)









