



#### **Product Overview**

- BC3248TM8QT is a new generation of high-performance data center TOR switch launched by N-net®for high-performance cloud computing, data center and campus network. The product adopts advanced hardware architecture design to provide the industry's highest exchange performance and rich data center business features.
- BC3248TM8QT supports 48\*10G fiber port(SFP+) with 8\*100G fiber port(QSFP28), it can provide high-density 10G / 25G / 100G data center access capability. In order to meet the requirements of cloud computing, the product supports rich VXLAN, EVPN, M-LAG, RDMA, MPLS, NETCONF and other data center features;

#### **Product Picture**





#### Product advantage

# Advanced hardware architecture design, industry-leading strong processing power

- Adopt the industry advanced hardware architecture design, high-density data center access design;
- Support 48\*10G SFP+ + 8\*100G ports(QSFP28);
- Embed in high-performance ASIC switch chip and multi-core processor, support up to 2.4 Tbps switch capacity, to meet the requirements of high performance, high capacity, high density and scalable data center;
- Standard data center front and rear cooling air duct design, Support air duct front and rear flexible selection;

#### Rich data center business feature

- Support for data center features such as VXLAN, EVPN, M-LAG, NETCONF, etc;
- Meet the data center Overlay network deployment requirements;
- OAM based on the IEEE802.1ag and ITU-T Y. 1731 enables Ethernet service providers to proactively monitor their business and measure end-to-end performance;
- Support Telemetry, can fine monitor equipment and business health;



#### **Data-center level high reliability**

- Based on the HPS (Hitless Protection System) non-interrupt protection system, the power supply system adopts a redundant modular plug-and-plug design to support seamless switching during failure without service interruption;
- Support STP / RSTP / MSTP protocol, support VRRP protocol, and support ring network protection, dual uplink main and standby link protection, LACP link aggregation and other simple and efficient redundant protection mechanism;
- Support ISSU (In-Service Software Upgrade) service does not interrupt the system upgrade, to ensure the uninterrupted forwarding of user data during the system upgrade and master switch;
- The ultra-high precision BFD two-way link detection mechanism realizes the millisecond fault detection and service recovery, which greatly improves the reliability of the network system;

#### **Rich business features**

- Support rich L2 and L3 business features;
- Support IPv4 / IPv6 dual protocol stack and rich unicast, multicast routing protocol;

#### **Perfect security mechanism**

- With multiple reliability protection at equipment level and link level;
- Support 50-200 ms link fault switch, ensure that key services do not interrupt transmission;
- Support cross-device link aggregation, convenient access server / switch to achieve dual live link;



#### **Innovative Green environmental protection design**

- Intelligent power management system: Using advanced power system architecture design, to achieve efficient power conversion, unique power monitoring, slow start and other functions, real-time monitoring of the running state of the whole machine, intelligent adjustment, deep energy saving;
- Intelligent fan management system: Intelligent fan design supports the flexible selection of front to rear or rear to front air duct, supports the automatic speed regulation of the fan, effectively reduce the speed, reduce noise, and prolong the service life of the fan;

#### **Basic** specifications

Ethernet Ports	48*10G SFP+ + 8*100G QSFP28
Management I/F	1*Console (RJ45)
	1* 1000Base-T(RJ45)
	1* USB Store
Cooling	4* Fixed Fan
Airflow	Front to rear
Power Supply	1* 200W Fixed Power Supply
Chipsets	Centec/BCM
FLASH	8GB
DRAM	2GB
Switch capacity	2.4Tbps



Throughput	1904Mpps
Dimension(W*D*H)	440 x440x 44.5 mm
Weight	6.8kg
Operating Temperature	0ºC to 45ºC
Store Temperature	-40ºC to 70ºC
Running Humidity	10% to 90% (No condensation)
Store Humidity	0 to 95% (No condensation)

#### Software Feature

Item	Sub Item	Feature	Description	Standard License	Professional License
		Interface	operating modes(Speed,FD/HD, auto-negotiation) Jumbo Frame port connect	↓ √ √	$\sqrt{\frac{1}{\sqrt{1}{1}}}}}}}}}}$
Ethernet		Flow-control	Flow-control tx/rx	$\checkmark$	$\checkmark$
basic features	Ethernet	Storm-control	Port based storm-control	$\checkmark$	$\checkmark$
			VLAN based storm-control	$\checkmark$	$\checkmark$
		Port-block	Port-block	$\checkmark$	$\checkmark$
		Port-isolate	L2/L3/All Port-isolate	$\checkmark$	



			Uni-direction isolate	$\checkmark$	$\checkmark$
		L2 Protocol Tunnel	L2 protocol tunnel (support		$\checkmark$
		Swich mode	Store-and-forward	$\checkmark$	
		Swich mode	Cut-through	$\checkmark$	
		VLAN Access	Access/Trunk	$\checkmark$	$\checkmark$
		mode	Default VLAN	$\checkmark$	
		VLAN Classification	VLAN Classification	$\checkmark$	$\checkmark$
			Basic QinQ	$\checkmark$	$\checkmark$
	VLAN	QinQ	Selective QinQ	$\checkmark$	$\checkmark$
			VLAN Mapping(1:1 VLAN Translation)	$\checkmark$	
			VLAN Mapping(N:1 VLAN Translation)	$\checkmark$	
		VLAN Statistics	VLAN Statistics	$\checkmark$	
		Private VLAN	Private VLANv		$\checkmark$
		Voice VLAN	Voice VLAN	$\checkmark$	$\checkmark$
		Guest VLAN	Guest VLAN	$\checkmark$	$\checkmark$
			Automatic learning and aging of MAC addresses	$\checkmark$	$\checkmark$
		MAC Address	Refresh the FDB based on ports and vlans	$\checkmark$	
	MAC	Table	Hardware Learning	$\checkmark$	$\checkmark$
			Static and dynamic		
			MAC address entries	$\checkmark$	$\checkmark$
			Blackhole MAC	$\checkmark$	$\checkmark$



		MAC Flapping detect	MAC Flapping detect	$\checkmark$	
		Port bridge	Port Bridge	$\checkmark$	
			Static-LAG & LACP	$\checkmark$	
			LAG load balance(SLB)	$\checkmark$	
			LAG load balance(DLB)	$\checkmark$	
	LAG	Lin kaggregation	LAG load balance(RR)	$\checkmark$	
			LAG Self-healing	$\checkmark$	
			Link aggregation weighting	$\checkmark$	$\checkmark$
		STP	Spanning-Tree Protocol	$\checkmark$	$\checkmark$
		RSTP	Rapid Spanning-Tree Protocol	$\checkmark$	$\checkmark$
	xSTP Sp	MSTP	Multi-instance Spanning-Tree Protocol	$\checkmark$	
			BPDU Filter/Guard	$\checkmark$	
		Spanning-Tree	Root Guard	$\checkmark$	
		Protocol	Loop Guard	$\checkmark$	$\checkmark$
			Anti TC-BPDU attack	$\checkmark$	
			Single ERPS ring	$\checkmark$	$\checkmark$
Ethernetprotection	ERPS	ERPS	tangent ERPS rings	$\checkmark$	
	ERPS	ERPS	intersecting ERPS rings	$\checkmark$	
			compatible with RRPP	$\checkmark$	$\checkmark$
	G.8031	G.8031	G.8031(Ethernet Linear		
	0.8031	0.8031	Network Protection)	v	V
			G.8032 V1 & V2	$\checkmark$	$\checkmark$
	G.8032	G.8032	Single Ring	$\checkmark$	$\checkmark$
			Sub Ring	$\checkmark$	$\checkmark$
	Loopback Detect	Loopback Detect	Loopback detection	$\checkmark$	$\checkmark$
Layer2 Multicast	Layer2	IGMP snooping	IGMPv1/v2/v3 Snooping	$\checkmark$	$\checkmark$



	Multicast		Fast leave	$\checkmark$	
			Static IGMP snooping group	$\checkmark$	
		MVR	MVR(Multicast VLAN Registration)	$\checkmark$	$\checkmark$
			Static and dynamic ARP entries	$\checkmark$	$\checkmark$
		ARP	Aging of ARP entries	$\checkmark$	
	ARP		Gratuitous ARP	$\checkmark$	
			basic ARP-Proxy	$\checkmark$	$\checkmark$
		ARP proxy	local ARP-Proxy	$\checkmark$	
			IPv4 Static Routes	$\checkmark$	
			Black hole Routes	$\checkmark$	
		IPv4 Static	co-work with IP SLA	$\checkmark$	$\checkmark$
		Routing	VRF(Virtual Routing and Forwarding)		
			uRPF check	$\checkmark$	
Pv4 Forwarding		RIP	RIP v1/v2	$\checkmark$	
		OSPFv2	OSPF v2	$\checkmark$	
			IS-IS	$\checkmark$	
	IPv4 Unicast Routing	IS-IS	segment-routing based on IS-IS protocol extension	х	$\checkmark$
			IBGP	$\checkmark$	$\checkmark$
		BGP	EBGP	$\checkmark$	$\checkmark$
			Graceful-Restart helper	$\checkmark$	$\checkmark$
		Deute neller	Route-map	$\checkmark$	$\checkmark$
		Route policy	IPv4 prefix-list	$\checkmark$	$\checkmark$
		PBR	PBR(Policy-based Routing)	$\checkmark$	$\checkmark$
		ICMP	ICMP redirect	$\checkmark$	$\checkmark$
		ICIVIP		2	2

ICMP unreachable

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			ECMP(SLB)	$\checkmark$	$\checkmark$
			ECMP(DLB)	√ √	
		ECMP		√	
			ECMP(RR)	√ √	
			ECMP Self-healing		
		IP unnumbered	IP unnumbered		
			IGMP v1/v2/v3	$\checkmark$	
	IPv4	IGMP	IGMP-proxy	$\checkmark$	
	Multicast		IGMP SSM mapping		
	Routing		PIM-SM	$\checkmark$	$\checkmark$
		PIM	PIM-SSM	$\checkmark$	$\checkmark$
			PIM-DM	$\checkmark$	$\checkmark$
		ICMPv6	ICMPv6	$\checkmark$	$\checkmark$
	IPv6 Basic Protocol	NDP	NDP	$\checkmark$	$\checkmark$
		PMTU	PMTU	$\checkmark$	$\checkmark$
		IPv6 Static	IPv6 Static Routes	$\checkmark$	$\checkmark$
		Routes	IPv6 Blackhole Routes	$\checkmark$	$\checkmark$
		RIPng	RIPng	$\checkmark$	$\checkmark$
	IPv6 Unicast	BGP4+	BGP4+	$\checkmark$	$\checkmark$
	Routing	OSPFv3	OSPF v3	$\checkmark$	$\checkmark$
		IS-IS	IS-IS	$\checkmark$	$\checkmark$
IPv6 Forwarding		VRRP v3	VRRP v3	$\checkmark$	$\checkmark$
		MLD v1/v2	MLD v1/v2	$\checkmark$	$\checkmark$
	Pv6 Multicast	MLD snooping v1/v2	MLD v1/v2 Snooping	$\checkmark$	$\checkmark$
	Routing	MVR6	MVR6	$\checkmark$	$\checkmark$
		PIM-SM v6	PIM-SM v6	$\checkmark$	$\checkmark$
	IP Tunnel	IPv6 over IPv4 Tunnel	IPv6 over IPv4 tunnel	$\checkmark$	$\checkmark$
		6to4 Tunnel	6to4 tunnel	$\checkmark$	$\checkmark$



		ISATAP Tunnel	ISATAP tunnel	$\checkmark$	$\checkmark$
		DHCDVC	DHCPv6 Relay	$\checkmark$	$\checkmark$
	ISATAP	DHCPv6	DHCPv6 snooping	$\checkmark$	$\checkmark$
	Tunnel	IPv6 Prefix List	IPv6 Prefix-list	$\checkmark$	$\checkmark$
			Detecting BFD for static		
			routes	N	v
			Detecting BFD for OSPFv2	$\checkmark$	$\checkmark$
			Detecting IS-IS BFD.	$\checkmark$	
	BFD	BFD	Procedure	N	v
			Detecting BGP BFD	$\checkmark$	$\checkmark$
			Detecting BFD for		$\checkmark$
			VRRP/Track	N	N
Reliability			Detecting BFD for the PBR	$\checkmark$	$\checkmark$
			VRRP	$\checkmark$	$\checkmark$
	VRRP	VRRP	Track for VRRP	$\checkmark$	$\checkmark$
			multi-instance	$\checkmark$	
	Constant Production		load balance	$\checkmark$	$\checkmark$
	Smart link	Smart link	Multi-Link	$\checkmark$	$\checkmark$
			Monitor-link	$\checkmark$	$\checkmark$
			MLAG basic	$\checkmark$	$\checkmark$
	MLAG	MLAG	MLAG orphan Port	$\checkmark$	$\checkmark$
			Auto detection	$\checkmark$	$\checkmark$
			Network fault detection	$\checkmark$	$\checkmark$
	EFM	EFM (802.3ah)	Network fault handle	$\checkmark$	$\checkmark$
Ethernet OAM			remote loop back	$\checkmark$	
		T	Hardware CCM detect	$\checkmark$	
	CFM	CFM (802. 1ag)	MAC Ping	$\checkmark$	
			MAC Trace	$\checkmark$	



	Y.1731	Y.1731	Latency and Jitter measure	$\checkmark$	$\checkmark$
			Traffic classification based on COS/ DSCP (simple classification)		$\checkmark$
		Traffic classification	Traffic classification based on ACL ( complex classification)	$\checkmark$	$\checkmark$
			Traffic classification based on inner header of the tunnel packets		
			Queue scheduling		$\checkmark$
QoS	QoS	Traffic behaviors	Remark the priority fields(COS/DSCP) of the packet based on ACL	V	
			Remark the priority fields(COS/DSCP) of the packet based on Table Map		$\checkmark$
			Flow redirection	$\checkmark$	$\checkmark$
			Flow mirror	$\checkmark$	$\checkmark$
	Tra		Traffic policing based on direction(in/out) of Port	$\checkmark$	$\checkmark$
			Traffic policing based on direction(in/out) of VLAN	$\checkmark$	$\checkmark$
		Traffic policing	Traffic policing based on direction(in/out) of flow	$\checkmark$	$\checkmark$
			Traffic policing based on direction(in/out) of aggregated flow	V	$\checkmark$
		Traffic shaping	Queue based traffic shaping	$\checkmark$	$\checkmark$



			Port based traffic shaping		$\checkmark$
			SP(Strict Priority)scheduling	$\checkmark$	
		Congestion	WDRR(Weighted Deficit		
		management	Round Robin)scheduling	$\checkmark$	N
			SP + WDRR mixed scheduling	$\checkmark$	$\checkmark$
			TD(Tail Drop)	$\checkmark$	
		Congestion avoidance	WRED(Weighted Random	.1	
		avoidance	Early Detection)	$\checkmark$	$\checkmark$
			Packet counts and bytes		
			statistics based on traffic	$\checkmark$	$\checkmark$
			classification		
			Packet counts and bytes		
	Traffic statistics	statistics based on the color	$\checkmark$	$\checkmark$	
			after traffic policing		
			Forwarded and discarded		
			packet counts and bytes	$\checkmark$	$\checkmark$
			statistics		
			Tail Drop-based ECN tag	$\checkmark$	$\checkmark$
		ECN (Explicit	WRED based ECN tagx	$\checkmark$	$\checkmark$
		congestion)	Shape rate speed based ECN	$\checkmark$	$\checkmark$
			tagx		
			VARP ( Virtual-ARP)	$\checkmark$	$\checkmark$
	VARP	Virtual gateway	Support IPv4	$\checkmark$	$\checkmark$
	VANE	vii tuai gateway	Support IPv6	$\checkmark$	$\checkmark$
Network			VARP support subnet	$\checkmark$	$\checkmark$
virtualization			Manual configure VxLAN		
	Turnel	VGLAN	tunnel		V
	Tunnel	VxLAN	VxLAN distributed gateway	$\checkmark$	$\checkmark$
			VxLAN active-active access	$\checkmark$	$\checkmark$



	-				
			VxLAN realize Overlay	$\checkmark$	$\checkmark$
			network	`	,
			L2 Protocol packet pass	$\checkmark$	$\checkmark$
			through	v	v
			Modify the DSCP of the outer	$\checkmark$	$\checkmark$
			VxLAN header	v	v
			Edit DSCP in VxLan outer	$\checkmark$	$\checkmark$
			header	,	
			BGP EVPN	Х	$\checkmark$
			Support to enable/disable overlay split horizon per-VNI	$\checkmark$	$\checkmark$
			Support IPv4	$\checkmark$	$\checkmark$
			Support IPv6	$\checkmark$	$\checkmark$
		GRE Tunnel	GRE Tunnel	$\checkmark$	$\checkmark$
		NVGRE Tunnel	NVGRE Tunnel	$\checkmark$	$\checkmark$
		GENEVE Tunnel	GENEVE Tunnel	$\checkmark$	$\checkmark$
Network	DCD	DCBX	LLDP support DCBX TLV	$\checkmark$	$\checkmark$
convergence	DCB	PFC	PFC	$\checkmark$	$\checkmark$
		LDP	LDP	Х	$\checkmark$
		MPLS Forwarding	MPLS Forwarding	Х	$\checkmark$
		VPWS	VPWS	Х	$\checkmark$
		VPLS	VPLS	Х	$\checkmark$
		MPLS OAM	MPLS OAM	Х	$\checkmark$
Metropolitan	IPRAN	MPLS Stats	MPLS Stats	Х	$\checkmark$
Network		L2VPN	L2VPN	Х	$\checkmark$
		L3VPN	L3VPN	Х	$\checkmark$
		ACL	MPLS ACL	Х	$\checkmark$
		QoS	MPLS QoS	Х	$\checkmark$
		SR	Segment-routing based on	Х	$\checkmark$



			MPLS		
		ccu .	SSH v1/v2	$\checkmark$	
		SSH	RSA Key generation	$\checkmark$	
		RADIUS	RADIUS	$\checkmark$	
		TACAS+	TACAS+	$\checkmark$	
			Authentication	$\checkmark$	
		AAA	Authorization	$\checkmark$	
			Accounting	$\checkmark$	
			Port based dot1x	$\checkmark$	
		Dot1x	MAC based dot1x	$\checkmark$	
			Guest VLAN	$\checkmark$	
	System Security		MAC/ IP ACL		
		ACL	Basic Mode ACL	$\checkmark$	
			Port-group ACL	$\checkmark$	
Networks Safety			VLAN-group ACL	$\checkmark$	
			IPv6 ACL	$\checkmark$	
			ACL UDF	$\checkmark$	
			Time Range	$\checkmark$	$\checkmark$
		ARP inspection	ARP inspection	$\checkmark$	$\checkmark$
		IP source guard	IP source guard	$\checkmark$	$\checkmark$
		Port Security	Limitation on MAC address learning on interface	$\checkmark$	$\checkmark$
		VLAN Security	Limitation on MAC address learning on VLAN	$\checkmark$	
		Control Plane	Black list/wihte list	$\checkmark$	
		Policy(COPP)	Rate limit	$\checkmark$	
		CPU Traffic Limit	CPU Traffic Limit	$\checkmark$	
		Prevent DDOS	Prevent DDOS attack (ICMP	$\checkmark$	$\checkmark$



		attack	Flood/Smurf/Fraggle/		
			LAND/SYN Flood)		
		Login filter	Telnet/SSH ACL filtering	$\checkmark$	$\checkmark$
			Telnet/SSH IPv6 ACL filtering	$\checkmark$	$\checkmark$
		Link-Flapping detection	Link-Flapping detection	$\checkmark$	$\checkmark$
			DHCP Server	$\checkmark$	$\checkmark$
			DHCP Relay	$\checkmark$	$\checkmark$
		51105	DHCP snooping	$\checkmark$	$\checkmark$
		DHCP	DHCP Client	$\checkmark$	$\checkmark$
			DHCP option 82	$\checkmark$	
			DHCP option 252	$\checkmark$	$\checkmark$
		RMON	RMON	$\checkmark$	$\checkmark$
		sFlow	sFlow v4/v5		
			Support IPv4	$\checkmark$	
		IP SLA	Support IPv6	$\checkmark$	
	Network		Support Track	$\checkmark$	$\checkmark$
	management	IPFIX	IPFIX		$\checkmark$
		Latency/Buffer	Latency monitor		$\checkmark$
		monitor	Buffer monitor	$\checkmark$	$\checkmark$
		EFD	Elephant flow detection		
		NTP	NTP(Network Time Protocol)		$\checkmark$
			Transparent clock (TC)	Х	$\checkmark$
		PTP	Ordinary clock ( OC)	х	√(On going)
	-	( IEEE1588 )	Boundary clock (BC)	Х	√(On going)
		Errdisable	Errdisable detection and	$\checkmark$	$\checkmark$
-				-	



			recovery		
		DNS	Static DNS Client	$\checkmark$	$\checkmark$
		LLDP	LLDP	$\checkmark$	$\checkmark$
			Configurations through CLI	.	
		CLI	(Command Line Interface)	$\checkmark$	
	Terminal Services		Banner configuration	$\checkmark$	$\checkmark$
		Help information	Help information in English	$\checkmark$	$\checkmark$
		Terminal Services	Vty Terminal service	$\checkmark$	
		Terminal Services	Console Terminal service	$\checkmark$	$\checkmark$
			In-band management		
		Management	interface and configuration	V	V
		interface	Out-band management	$\checkmark$	
			interface and configuration	v	N
		User privilege	rivilege privileged user priority and $$	2	$\checkmark$
		management	privileged commands	v	
Configuration and		SNMP	Network management based	$\checkmark$	$\checkmark$
maintenance			on SNMPv1/v2c/v3		
		5141411	Public and private MIB	$\checkmark$	$\checkmark$
	Configuration		Public and private Trap	$\checkmark$	$\checkmark$
	Management		Configuration and		
		WEB	management based on WEB	$\checkmark$	$\checkmark$
			UI		
			Configuration and		
		RPC-API	management based on	$\checkmark$	$\checkmark$
			RPC-API		
			Smart Config(Automatically		
		Smart config	configuration when system	$\checkmark$	$\checkmark$
			start)	,	
		OVSDB	Configuration and	$\checkmark$	$\checkmark$



		management based on		
		OVSDB		
		change the system		
	RPC-API	specifications by choose	$\checkmark$	$\checkmark$
		different STM Profiles		
	License control	Feature configuration based	$\checkmark$	
		on License		
	Netconf	Netconf	$\checkmark$	$\checkmark$
	Restore factory	Restore factory default	$\checkmark$	
	default	configuration	•	*
	File system	File system(support directory	$\checkmark$	
	The system	and file management)	`	√ √ √
		Upload and download files	$\checkmark$	
File System		through FTP or TFTP	`	*
The bystem	Upload and	Upload and download files in	$\checkmark$	$\checkmark$
	download	SCP mode	`	`
		File transfer in Xmodem	$\checkmark$	
		mode		
	Debug	per-module Debug features		
		ICMP Debug	$\checkmark$	
		Software process monitor:	$\checkmark$	$\checkmark$
	внм	BHM(Beat Heart Monitor)		
Diagnosis		Hardware Watch Dog	$\checkmark$	$\checkmark$
and	VCT	VCT(Virtual Cable Test)	$\checkmark$	$\checkmark$
Maintenance	System	Detailed		
	diagnostics	Diagnostic-information	$\checkmark$	$\checkmark$
		collection		
	Reboot	Manual reboot	$\checkmark$	
	NEDUUL	Schedule Reboot	$\checkmark$	$\checkmark$



		Reboot Information logging		$\checkmark$
	Not	Ping		$\checkmark$
	Network	IPv6 Ping		$\checkmark$
	diagnostics	Traceroute		$\checkmark$
		CPU usage display and		
		alarm		N
		Memory usage display	$\checkmark$	2
		and alarm	v	N
		Supports CPU/ memory	$\checkmark$	V
		historical display	v	v
		Device temperature, PSU,		$\begin{array}{c c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $
		FAN, status display and alarm		
	Log & alarm	User operation logs		
		Management of logs, alarms,		
		and debugging information	v	
		Support interface bandwidth		
		usage alarms	v	v
		Support Log servers with IPv4		
		addresses	v	v
		Support Log servers with IPv6	$\checkmark$	
		addresses		v
		Port mirror	$\checkmark$	$\checkmark$
		Flow mirror	$\checkmark$	$\checkmark$
		Remote mirror	$\checkmark$	$\checkmark$
	Mirror	Multi-destination		
	WIITO	mirror(m:n)	N	N
		Use CPU as mirror source	$\checkmark$	$\checkmark$
		Use CPU as mirror		
		destination and analyze	$\checkmark$	N



			packet		
Software upgrade			ERSPAN	$\checkmark$	$\checkmark$
		CPU statistics	To CPU/ From CPU packets statistics		
		L2 Ping	layer2 network connectivity detection - L2Ping (MAC Ping/Trace)	$\checkmark$	$\checkmark$
		UDLD	UDLD(Unidirectional Link Detection)		
		Unidirectional	Unidirectional forwarding of the fiber	$\checkmark$	$\checkmark$
			port loop back	$\checkmark$	$\checkmark$
		Loop back	hardware loop back(internal/external)		$\checkmark$
		Sustan tina	Time configuration	$\checkmark$	$\checkmark$
		System time	Timezone	$\checkmark$	$\checkmark$
	Softwara	System Software	Local upgrade	$\checkmark$	$\checkmark$
	upgrade	upgrade	Upgrade from TFTP	$\checkmark$	$\checkmark$
		Upgrade the Uboot online	$\checkmark$	$\checkmark$	

#### **Order information**

Model	Description
Chassis	
BC3248TM8QT	48*10G (SFP+) + 8*100G(QSFP28),1 Fixed PSU modules



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