

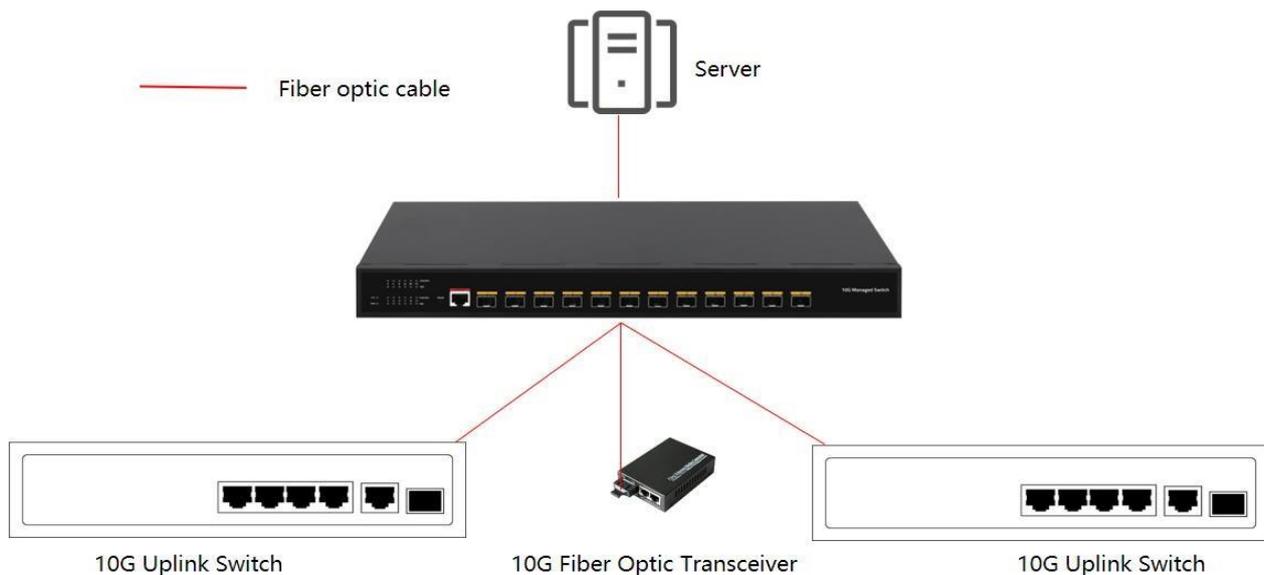
12-Port 10G L3 Management SFP+ Switch



Highlights:

- Complies with IEEE 802.1d, IEEE 802.1w, IEEE 802.1s, IEEE 802.1p, IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3z, IEEE 802.3ab, IEEE 802.3ae standards;
- L3 management, supports DHCP Server, QoS, ACL control, supports SNMP V1/V2/V3, supports IGMP Snooping v1/v2;
- Supports Spanning Tree Protocol STP/RSTP/MSTP (ERPS), supports loop detection and self healing, and supports remote loop back monitoring and control (802.3ah OAM);
- Support multiple VLAN partitions, including MAC VLAN, protocol VLAN;
- Supports IP address+MAC address+VLAN+port binding, supports DHCP Snooping, supports IP source and DAI protection;
- Supports IPV4/IPV6 RIPv1/v2 OSPF v2

Specifications:



Hardware Features & Performance		
Model		TG3C12F-AT
General	Interface	12* 10 Gigabit SFP+ports 1 *RJ45 Console port
	Port Standard	IEEE802.3 (Ethernet) IEEE802.3u (Fast Ethernet) IEEE 802.3ab (Gigabit Ethernet) IEEE 802.3z (Gigabit Ethernet Fiber Standard) IEEE 802.3ae (10 Gigabit Ethernet) IEEE802.3x (Flow Control) IEEE 802.3az (Efficient and Energy saving Ethernet) IEEE 802.3ad (Link Aggregation) IEEE 802.1AB LLDP/LLDP MED (Link Layer Discovery Protocol) IEEE 802.1D Spanning Tree Protocol IEEE 802.1w Rapid Spanning Tree Protocol IEEE 802.1s Multiple Spanning Tree Protocol (Fast Spanning Tree) IEEE 802.1Q (Virtual Local Area Network) IEEE 802.1p (VLAN Tag) IEEE 802.1X (User Authentication)
Performance	Switching Capacity	240Gbps
	Packet Forwarding Rate	178.56Mpps
	Packet Buffer	16Mbit
	MAC Address Table	32K
	Jumbo Frame	support
	VLAN	VLAN range 1-4094, maximum active VLAN is 4K
	Transmission Method	Store and Forward
Environment	Surge Protection	Electrostatic ESD: Air 8KV, Contact 6KV (Class B)
	Operating Temperature	0~40°C
	Storage Temperature	-40°Cto 70°C
	Operation Humidity	10%~90%, non condensing
	Storage Humidity	5%~95%, non condensing

Hardware Features & Performance		
Physical	Power Supply	AC 100-240V 50/60Hz DC 12V 8A
	Mainboard Power Consumption	29.6W
	Structure Information	Product Dimensions:440*205*44mm Packaging Dimensions:500*290*85mm Product Net Weight: 2.50KG Product Gross Weight: 3.12KG



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Technical Data Sheet

	Packing Information	Carton Dimensions: 520*445*310mm Packing Quantity: 5PCS Packing Weight: 16.6KG
	Packing List	switch 1pcs, power cord 1pcs, instruction manual 1pcs, certificate of qualification 1pcs
	Fan Quantity	1
	Installation	desktop
Indicator Lights	PWR	On: Powered on Off: Powered off
	SYS	Flashing: System startup in progress On: The system is running normally
	10G	On: 10G Link
	Link/ACT	On: Link normal Off: Link blocked Flashing: Data transmitting

Software Features

L3 Function	
IPv4	IPv4 VLAN Interface
	IPv4 Static Routes
	ARP
IPv6	IPv6 VLAN Interface
	IPv6 Static Routes
	IPv6 ND
RIP	V1/V2
OSPF	Router-ID
	Authentication
	V2
L2 Function	
Port	Port Switch configuration
	Port Description configuration
	Port Speed configuration
	Port Duplex configuration
	Port Flow Control configuration
	Support 10G/2.5G
	Jumbo Frame, Up to 10K



	Fiber Module(DDM)
Link Aggregation	Supports load balance policy; Base on MAC and IP-MAC
	Static and Dynamic Group
	Supports LACP
	Up to 8 groups
Storm Control	Boardcast suppression
	Unknown Multicast
	Unknown Unicast
Port Mirroring	One to one monitor
	Many to one monitor
	Ingress/Egress/Both
	Up to 4 session groups
Port Security	MAC Address Constraints
	Port Security MAC Address
	Protect/Restrict/Shutdown
Port Isolation	support
Port Rate-limit	support
Loopback Detection	support
VLAN	Access/Trunk/Hybrid
	VLAN Tunnel (Q-in-Q Tunnel)
	VLAN range 1-4094, maximum active VLAN is 4K
	Voice VLAN
	MAC VLAN
	Surveillance VLAN
	Protocol VLAN
	GVRP

Software Features	
	Dynamic MAC address
MAC Address	Static MAC address
	Filtering MAC Address
Spanning Tree Protocol	STP/RSTP/MSTP
	BPDU Filter
	BPDU Guard
	Edge Port
LLDP	LLDP



	LLDP MED
Multicast	IGMP Snooping
	IGMP V1/V2/V3
	Router Port
	Static IGMP group address
	IGMP groups filtering
	Querier
	MLD Snooping
	MVR
QoS	Traffic classification based, Strict priority and WRR
	Port Priority
	802.1P Priority
	IP TOS Priority
	IP DSCP Priority
	Supports up to 8 queues per port
	Priority Remarking
ERPS	Only SFP port
Services	
DHCP	DHCP Server
	IP Pool
	Static Binding
	Option 43
	DHCP Relay
Access Protocol	HTTP
	HTTPS
	Telnet
	SSHv2
	Manager ACL
	Session Timeout
	Password Retry Count
	Silent Time

Software Features	
Security	
AAA	RADIUS



	TACACS+
	802.1X
	Base on port/MAC/local/WEB
DHCP Snooping	Global/VLAN
	Option 82
	Circuit ID
IP Source Guard	support
Dynamic ARP Inspection	support
DoS	support
ACL	MAC ACL
	IPv4 ACL
	IPv6 ACL
Diagnostics	
Syslog	Logging Message
	Remote Server
Ping	support
Traceroute	support
Copper Test	support
UDLD	support
Equipment Management	
Manager Acces	Console
	HTTP/HTTPS
	Telnet
	SSH
	SNMP
Manager IP	Static Address
	DHCP Client
	Supports IPv4 and IPv6 address
	Manager VLAN



	DNS
Time Synchronization	SNTP
	Manual Time

Software Features	
	V1/V2C/V3
SNMP	Community
	V3 User
	Group
	Trap Host
SNMP MIB	RFC 1213 MIB-II
	RFC 1493 Bridge MIB
	RFC 1643 Ethernet MIB
	RFC 2819 RMON MIB (Groups 1, 2, 3 and 9)
	RFC 2863 Interface MIB
	LLDP
	Private MIB
RMON	Statistics
	History Configuration
	Event Configuration
	Alarm Configuration
User Management	support
Firmware Management	Firmware upgrade
	Double Image; Swap between Active and Alternate firmware image.
Configuration Management	Upload and download
Save	support
Restart	support
Factory Defaults	support

Software Features	
Standard Compliance	
IEEE 802.3x flow control and back pressure	
IEEE 802.3ad port trunk with LACP	
IEEE 802.1D Spanning Tree Protocol	
IEEE 802.1w Rapid Spanning Tree Protocol	
IEEE 802.1s Multiple Spanning Tree Protocol	



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IEEE 802.1p Class of Service
IEEE 802.1Q VLAN tagging
IEEE 802.1x Port Authentication Network Control
IEEE 802.1ab LLDP
RFC 768 UDP
RFC 793 TFTP
RFC 791 IP
RFC 792 ICMP
RFC 2068 HTTP
RFC 1112 IGMP v1
RFC 2236 IGMP v2
RFC 3376 IGMP v3
RFC 2710 MLD v1
RFC 3810 MLD v2
RFC 2328 OSPF v2

Product Picture:



Product Structure Diagram:

