

UTP7748GE-L3/UTP7724GE-L3



Gigabit Stackable L3 Core Switch with 10G ports is equipped with the new generation of high-performance hardware and self-developed software platform. Providing 24/48*Gigabit Downlink ports and 4*10G Uplink ports (2 stackable ports), the switches are featuring with layer 3 management, IPv6/4, excellent security mechanism, ACL/QoS, and rich VLAN function. In addition, these core switches are easy to be managed and maintained, and widely used in the core layer or aggregation layer in the surveillance networking of enterprise and industrial area etc.



Feature

Strong Business Process Capability

- Support RIP (Routing Information Protocol) and OSPF (Open Shortest Path First), solving the routing problem of large and medium complex networks after subnet subdivision and simplify network configuration.
- Support static route, administrators can manually configure router numbers to realize the communication between network segments in a simple, efficient and reliable way.
- Support DHCP server, assigning IP address for host.
- Support DHCP relay, it can obtain IP address through different ports or switches in different subnets, and reduce the numbers of DHCP server.
- Support proxy ARP to realize the communication between the hosts of different physical networks in the same network segment.
- Support 802.1Q-based VLAN, MAC-based VLAN, VLAN & Private VLAN, administrators can flexibly assign VLAN.
- Support GVRP to realize the function of dynamic distribution, register and propagation for VLAN. And it reduces manual configuration to ensure correct configuration.
- Support VLAN-VPN, through this function, the switch would encapsulate two Layers of VLAN tag on private network messages before getting them through the public network.
- Support QoS of Port-based, 802.1P-based and DSCP-based, with EQU & WRR etc. scheduling for priority queues.
- Support ACL, configuring matching rules, processing operations and time permissions to filter packets to provide security access control policy.
- Support IGMP V2/V3 Snooping & MLD Snooping, meeting the access requirement of multi-terminal for HD video surveillance and video conference.

Excellent Security Mechanism

Support IP+MAC+VLAN+port binding.

Support ARP protection against ARP spoofing & ARP flooding.

- Support IP Source Guard, protecting the system from MAC spoofing, IP spoofing and counterfeiting IP/MAC address.
- Support DoS protection against Land Attack, Scan SYNFIN, Xmascan & Ping Flooding etc.
- Support 802.1X authentication. It can control the authorization status of the port according to result of authentication.
- Support Port Security, it would stop learning when the learning number reached the maximum. And it prevents MAC address attack and controls network traffic of port.
- Support DHCP Snooping, which effectively puts an end to setting up DHCP server privately, and ensures the validity of DHCP server.

Multiple Reliable Protection

- Stacking technology, connect with stack member via 10G port, simplifies management and improves reliability of system.
- Support Spanning Tree Protocol - IEEE 802.1D Classic Spanning Tree Protocol (STP)- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP).
- Support static aggregation and dynamic aggregation, effectively increasing link bandwidth, and realizing load balancing & link backup, and improving link reliability.
- Support redundant power supply to ensure continuous operation(UTP7748GE-L3).

Simple Maintenance

- Support WEB Management, CLI Command (Console, Telnet) & SNMP (V1/V2/V3) etc.
- Support encryption of HTTPS, SSL V3, TLSV1, SSHV1/V2.
- Support RMON, Syslog, convenient for network optimization and transformation.
- Support LLDP. It is convenient for administrators to check and judge the communication status of the link through the network management system.
- Support CPU monitoring, memory monitoring, PING, Tracert, cable inspection.

Specification

		UTP7724GE-L3	UTP7748GE-L3
Port	10/100/1000M BASE-T RJ45 ports	24	48
	100/1000M BASE-X ports	N/A	N/A
	100/1000M Combo ports	N/A	N/A
	10G SFP+ uplink ports	2	2
	10G stack link ports	2	2
	FE out-of-band management ports	1	1
	console RJ45 ports	1	1
Performance	Flash memory	64MB	64MB
	DDRIII capacity	512MB	512MB
	Switching capacity	256Gbps	352Gbps
	Throughput	95.2Mpps	130.9Mpps
	MAC address table size	16K	16K
	Jumbo frames	9KB	9KB
	auto-negotiation	YES	YES
	auto-MDI/MDIX	YES	YES
Power Supply	input range (1 PWOER Inside)	100-240VAC 50-60Hz	100-240VAC 50-60Hz
	Max system power consumption(W)	21W	45W
	Smart fan controller(energy efficiency)	Fanless	1 Smart Fans
	SFP power control(energy efficiency)	Yes	Yes
	Redundancy Power	N/A	Yes
	Dying gasp	Yes	Yes
Physical Specification	Rack Space	19"	19"
	Dimension (W x D x H) cm	44 x 28 x 4.4	44 x 33 x 4.4
	weight	2.7kg	4.3kg
Environment	Operating Temperature	0° to 50°C	0° to 50°C
	Storage Temperature	-40° to 70°C	-40° to 70°C
	Operating Humidity (non-condensing)	10% to 90%	10% to 90%
	Storage Humidity (non-condensing)	10% to 90%	10% to 90%
	Environmental Regulation Compliance: RoHS	Yes	Yes
Certification	FCC Class A	Yes	Yes
	CE	Yes	Yes

Specification

Layer 2	Tri-speed (10/100/1000BASE-T) copper interfaces	Auto-negotiation for port speed and duplex mode
		Auto MDI/MDI-X
	SFP+ fiber interface	1GBASE-X/10GBASE-R
	Transceivers	current/rx-power/temperature/tx-power
		voltage/high-low alarm and warning
		Digital Diagnostic Monitoring (DDM)
	Flow Control	IEEE 802.3x for full duplex mode
		Back-Pressure for half duplex mode
	Jumbo frames	9 KB
	Broadcast/Multicast/Unknown Unicast Storm Control	
	Link aggregation	Static link aggregation
		802.3ad with LACP
		Unicast/Multicast load balance over trunk port
	Spanning Tree Protocol	IEEE 802.1D Spanning Tree Protocol (STP)
		IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
		IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
		ERPS
BPDU Guard		
BPDU filtering		
BPDU transparent		
Loopback detection		

Specification

Layer 2	VLANs	Supports 4K VLAN
		Port-based VLAN
		IEEE 802.1Q VLAN
		GVRP (256 VLAN)
		IEEE 802.1v Protocol-based VLAN
		IP Subnet-based VLAN
		MAC-based VLAN
		Voice VLAN
		Traffic Segmentation
		QinQ
	IGMP Snoopaing	IGMP Proxy reporting
		IGMP v1/v2/v3 snooping
		IGMP Filtering
		IGMP Throttling
		IGMP Immediate Leave
		IGMP Querier
		IGMP mrouter-forward mode
		IGMP router-port-expire-time
		IGMP tcn-flood
		IGMP tcn-query-solicit
	IGMP unregistered-data-flood	
	MVR	5 multicast VLANs
	Port mirroring	
	Remote port mirror (RSPAN)	
	Stacking Links	L2/L3 supported
		VLAN membership supported
		trunking supported
		IPMC supported

Specification

Layer 2	Non-Spanning Tree Loopback detection	
	Port security	
	Dynamic Arp Inspection	
	CFM, OAM, UDLD	
Layer 3	OSPF	
	Unicast Routing	Static Unicast Routes
		RIP v1/v2
	Multicast Routing	IGMPv1/v2/v3
	ARP limit, ARP proxy, ARP filter, ARP inspection	
	DHCP server	
	IGMP Snooping	IGMP Proxy
		IGMP V1/V2/V3 snooping IGMP filter, IGMP restrain IGMP immediate-leave IGMP inquire
	MVR	Support 5 multicast VLANs
	Port Mirroring, RSPAN	
Stackable	Support L2/L3 stack	
	Support VLAN membership Support Relay Support IPMC	
Link Aggregation	Dynamic Link aggregation LACP	
QoS	Scheduling for priority queues	WRR Priority Scheduling
		Strict Priority Scheduling
		Hybrid(DRR/WRR + Strict)
	COS	
	DiffServ	
	Number of Priority Queues	8 queues/port
	DSCP	
TCP/UDP Port Base		
Security	AAA	Radius client
		Tacasc+ client
	802.1X	Local/radius Authentication
		Port-based Authentication
		Mac-based Authentication
	HTTPS and SSL(v3)	
	SSH V2.0	
	DHCP Snooping	Option 82
	IP Source guard	
DoS Protection		

Speicfication

ACL	L2/L3/L4	
	Ingress	
	Egress	
	Statistics	
	Global ACL	
	IPv4/IPv6/MAC/ARP ACL	
Management	Switch Management	Web management
		CLI via console port or Telnet
		SNMP v1, v2c, v3
	IP clustering	32 members
	Firmware	Firmware upgrade via HTTP
	Configuration	Dual images
		Multiple configuration files
		Configuration file upload/download via TFTP/HTTP/FTP server
		Firmware auto upgrade
	RMON	Groups 1, 2, 3 and 9
	MIB II	
	DHCP/BOOTP	Client
		Relay
		DHCP dynamic provision option 66,67
	DNS client	
	Syslog	
	System monitor	
	LLDP	
	Ping/ Traceroute	
	SNTP/NTP	
SMTP		
SFLOW		

Speicfication

IPv6	IPv4/IPv6 Dual Protocol Stack	
	IPv6 Address Type	Unicast
		Multicast
	ICMPv6	
	IPv6 Neighbor Discovery	
	IPv6 Neighbor Discovery Snooping	
	Manual Configuration	
	IPv6 DHCP client	
	IPv6 DHCP Snooping	
	MVR over IPv6	
	SNMP over IPv6	
	HTTP over IPv6	
	SSH over IPv6	
	Telnet over IPv6	