FR-5T6224

L3 Managed Network Switch, 24×10G SFP+ Slots and 2x100G QSFP28 Slots, Redundant AC Power Inputs





Main Features

Stacking

- Virtualized stacking: multiple switches integrated into one logical device
- Single IP address stack management
- Supports up to 10 hardware units stacked together

Security

- 802.1X / RADIUS / TACACS+ AAA
- ACL (L2/L3/L4, MAC/IPv4/IPv6 based)
- DHCP Snooping + Option 82/43
- SSHv2, HTTPS/TLS, storm control

Layer 2+ Features

- Jumbo frame support
- 802.1Q / Q in Q VLAN (4K groups)
- STP/RSTP/MSTP for loop prevention
- LACP link aggregation + ERPS ring redundancy

Hardware

- 0°C~50°C operating temperature
- Redundant AC power inputs

CE FC

Protected by hardware warranty
Advance replacement. Global coverage.

View policy on Fiberroad's website.

Layer 3 & Management

- OSPFv2, RIPv2, Static IPv4/IPv6 routing
- QoS with 8 priority queues + rate limiting
- CLI / Telnet / WebGUI / SNMPv3
- LLDP / LLDP MED, RMON, Dual Images
- DHCP Server/Client, NTP, Syslog

Product Specifications

FR-5T6224

Product	FR-5T6224
Interface	
RJ45 Ports	1 x 10/100/1000Base-T management port; 1 x console port
Fiber Ports	24 x GE/10G SFP+ slots 2 x 40G/100G QSFP28 slots
USB	1 x USB 2.0
Electrical and Mechanical	
Input Voltage	AC 100-240V, 50/60Hz; 2 power inputs
Power Consumption	70W max (full load)
Enclosure	IP30 Metal case
Dimension	440 x 300 x 44 mm, 1U rack-mount, 5.8kg
Standards	
IEEE 802.3ae	10GBaseSR/LR/ER/ZR
IEEE 802.3ba	40GBaseSR4/LR4 and 100GBaseCR4/LR4
IEEE 802.3bm	40GBaseER4 and 100GBaseSR4
IEEE 802.1Q	VLAN tagging
IEEE 802.3x	Flow Control
IEEE 802.1ad	Q-in-Q VLAN stacking/tunneling
IEEE 802.1D	Spanning Tree Protocol
IEEE 802.1w	Rapid Spanning Tree Protocol
IEEE 802.1s	Multiple Spanning Tree Protocol
IEEE 802.1p	Class of Service
IEEE 802.1x	Authentication
IEEE 802.3ad	LACP / static trunk
Switching	
Switch Architecture	Store-and-forward

Product Specifications

FR-5T6224

Product	FR-5T6224
Switching	
Switch Fabric	880Gbps, non-blocking
DRAM	2048 MB
FLASH	4096 MB
Forwarding Rate	660Mpps
Packet Buffer Size	4.5MB (shared data buffer)
Maximum Packet Length	9K bytes
MAC Address Table	128K entries, automatic source address learning and aging
Flow Control	Flow control enable/disable per port
Software Features	
Port Configuration	Port enable/disable, speed, flow control, per-port bandwidth control, loopback detect
Port Status	Link/activity LEDs (10G and 100G ports)
Port Mirroring	Supported
VLAN	IEEE 802.1Q, 802.1ad QinQ, GVRP, private VLAN, protocol-based, MAC-based, voice VLAN, MVR, up to 4K VLAN groups
Link Aggregation	IEEE 802.3ad LACP / static trunk; max 32 trunk groups, up to 8 ports per group
Spanning Tree Protocol	STP (802.1D), RSTP (802.1w), MSTP (802.1s), BPDU
Multicast	IPv4 IGMP v1/v2/v3 snooping, fast leave, querier, filtering and throttling, proxy reporting; IPv6 MLD v1/v2 snooping; PIM-DM/SM/SSM
Rate Limitation	Ingress and egress bandwidth control (minimum 64Kbps stream)
Ring	ITU-T G.8032 ERPS, EAPS
QoS	8 priority queues on all ports; SP, WRR, SP+WRR; Classification by 802.1p CoS, DSCP, DiffServ, Precedence, TOS, VLAN ID, IP/MAC/port ACL; Traffic supervision and shaping; Policy-based ingress/egress QoS
ACL	Standard and extended, IP/MAC/port-based and time-based ACL; up to 1K entries
Security	802.1X; TACACS+ and IPv4/Ipv6 RADIUS (AAA); port isolation; port security with IP+MAC+port binding; L2/L3/L4 ACL filtering; DoS/TCP attack defense; broadcast/multicast/unknown-unicast suppression; DHCP Snooping and Option 82; user-level command authority; dynamic ARP inspection

Product Specifications

FR-5T6224

Product	FR-5T6224
Layer 3 Functions	
IP Interfaces	IPv4 / IPv6 dual stack; routing table 16K (IPv4) / 8K (IPv6); ARP table 16K / 8K; 1K SVI
IP Services	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet, IPv6 neighbor discovery, Path MTU discovery; DRAM 2048MB, Flash 4096MB
Routing	RIP v1/v2, OSPF, BGP, static routing; PIM-DM/SM/SSM; VRRP, policy-based routing, ECMP load balancing, BFD for OSPF/BGP; IPv6: RIPng, OSPFv3, BGP4+, manual/ISATAP/6-to-4 tunnels
Management	
Basic Management Interface	Port enable/disable, speed, flow control, per-port bandwidth control, loopback detect
Secure Management Interface	SSHv2, SSLv3, SNMPv3; max 8 SSH/Telnet sessions; IPv4/IPv6 SNMP IP security inspection
Secure Management Interface	TFTP/FTP; RMON groups 1/2/3/9; MIB and TRAP; Syslog Server (IPv4/IPv6); RADIUS shell management; Stacking management up to 10 members (2 software-defined stacking ports)
Environmental	
Operating Temperature	0°C to +50°C
Storage Temperature	-40°C to 80°C
Operating Humidity	10% to 85% (non-condensing)
MTBF	Not specified in datasheet
Cooling	Fan cooling (4 fans)
Noise Level	57 dBA @ 25°C
Regulatory	
ISO	ISO-9001
Safety	EN60950-1, UL60950-1, CSA C22.2 No.60950-1, UL508
EMI	FCC Part 15 Class A, CE-EMC/LVD
EMS	EN61000-4-2 (ESD): Level 4 IEC61000-4-4 (EFT): Level 4 IEC61000-4-5 (Surge): Level 4 IEC61000-4-6 (CS): Level 3 IEC61000-4-8 (PFMF): Level 5 EN61000-4-3 (RS): Level 4

Product Specifications

FR-5T6224

Product	FR-5T6224
Regulatory	
Environmental	RoHS; shock IEC60068-2-27; vibration IEC60068-2-6; free fall IEC60068-2-31

Ordering Information

Product	Description	Input Voltage	Operating Temp.
FR-5T6224	L3 Managed Network Switch, 24×10G SFP+ Slots and 2x100G QSFP28 Slots, Redundant AC Power Inputs	Dual 110-240VAC	0 to +50°C

Optional Accessories (to be purchased separately)	
SFP Optical Transceiver	Please select your power supply on our Power Supplies & Adapters page for details.

Package Contents	
Device	1 x Ethernet Switch
Cable	1 x DB9 female to RJ45 10-pin
Installation Kit	2 x Rack-Mount Kits

Specifications are subject to change without notice. Fiberroad Technology Co., Ltd. makes no warranties, either expressed or implied, regarding the information contained herein. Please contact us for the latest product information.

© Fiberroad Technology Co., Ltd. All rights reserved. | Oct 2026