20 Ports Layer 2+ Data Center Switch with 12x 10G optical ports

Lightem 10Gigabit Data Center Switch LT20-12SFP+ is a standard layer 2+ switch. Allocate flexible networking capabilities to ensure the stable operation of load balancing and link network. It provide 12x 10G optical ports, 8x 1G electrical ports. It located in density of the next generation of data center and cloud computing network access, can also be used for large Internet cafes, the core of enterprise network, metropolitan area network, or gathering.


FEATURES

- 376G backplane bandwidth
- 12x 10G optical ports, 8x 1G electrical ports
- Hardware routing, wire-speed 3rd layer switching packet forwarding rate of 279.74Mpps
- Extensible 32 biggest 10GE interface, the highest density (1U TOR), meet the demand of high-density 10G server access.
- Provide DOS, distributed denial of service, deception and virus defense
- Support IEEE802.1x, provide port-based user authentication, network shield, safety control, and strategy control technology
- Restrict maximum number of connected hosts port, with multi-channel Ethernet interface binding, increasingbandwidth and system redundancy
- Powerful ACL, support for L2-L4 layer data filtering
- Strategy control list, flow regulation
- Supports flexible port configuration
- All kinds of management method through Web, SNMP and so on
- In the PHY to enter or exit a low-power state.
- Automatic detecting and broadcast storm restraining, support for IGMP message detection, effectively limit the spread of broadcast message.
- Support full duplex mode and half duplex mode flow control
- Support Ethernet interface with 1M as the rate limiting step
- Support IP multicast and QoS

SPECIFICATIONS

16 Ports Layer 2/2+ Data Center Switch with 8x 10G SFP+ ports	
Fixed Port	12x 10G optical ports, 8x 1G electrical ports
Console Port	1
OOB Management Port	1
Backplane bandwidth	376 Gbps
Packet Forwarding Rate	279.74 Mpps
Jumbo Frames	16356 bytes
Transfer Mode	Support store-forward mode and cut-through mode
IPv4/IPv6 Route	6k / 8k
MAC Address Table	96K
Packet Buffer	4MB
VLAN ID	4K
Flash Memory Capacity	8MB
Memory Capacity	512MB DDR3 SDRAM
Soft Specification	
Security Feature	IP+MAC+PORT+VLAN binding
	ARP inspection
	DOS prevention
	Port protection

VLAN	Port based VLAN; 802.1Q VLAN; IP based VLAN; MAC based VLAN
MAC Address Table	Static MAC address table
	Dynamic MAC address table
Storm Control	Broadcast Limit; Multicast Limit; DLF Limit; Limit Speed
Traffic Control	Half-duplex control based on the back pressure type
	Full-duplex control based on the PAUSE frame
Port Mirror	Support port mirroring
Port Management	System info; Port Statistics; Config port; Port trunk; Port-isolate
QoS	IEEE 802.1Q Congestion mechanism
	Each port has 8 send queue mapping to 8 802.1p priority
IP Services	Ping dectection; DHCP Snooping
Spanning Tree	MSTP(802.1s)、STP、RSTP
Multicast Management	IGMP Snooping frame
System Management	Support SNMP v1/v2
	Support Console
	Support TELNET
	Support WEB
Remote Upgrading	Web host
Physical Characteristics	
Appearance size	440mm × 285mm × 44mm
Power supply	AC 90V ~ 290V , DC -38.4V ~ -72V
Operating temperature	0°C ~ 50°C (0m ~ 1800m)
Operating humidity	5% ~ 95%, Non-condensing

FUNCTIONAL DIAGRAM
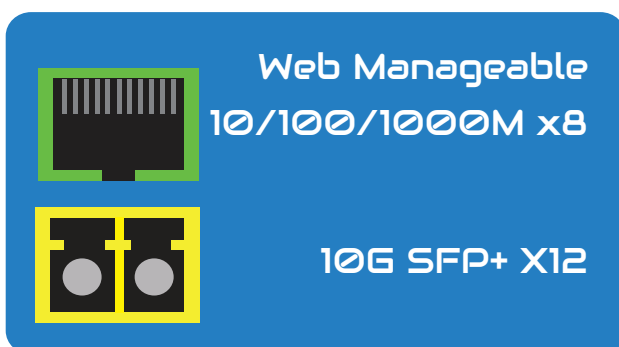
ORDERING INFORMATION

PN	DESCRIPTION
LT20-12SFP+	20 Ports Layer 2+ Data Center Switch with 12x 10G optical ports