



OPTOSTAR 10G Uplink Smart Switch Aggregation Switch

OP-S6530 Series



Shenzhen Optostar Optoelectronics Co., Ltd

2012. 01 (Version 2)

Overview

OP-S6850 Series is designed for carrier-class GE access and 10G uplink networks. It covers all kinds of enterprise/ operators customer, providing 20/24/48* 10/100/1000Base-T, 1000Base-X SFP or 10G SPF+ for the demand of cost-effective Gigabit access / aggregation. OP-S6850 adopts high performance processor to provide full speed forwarding and line-dormant capacity to coordinate with NGBN, supporting strong ACL, IP+MAC+ports binding and so forth.

Product Parameter

OP-S6530-20G4C4P



- 20 * 100/1000Base-X
- 4*GE Combo
- 4*10GE SFP+
- 16K MAC address
- full load < 60W
- AC: 110~240V, 47~67Hz
- 440mm *280mm *44mm

OP-S6530-24G4P



- 24 * 10/100/1000Base-T
- 4*10GE SFP+

- 16K MAC address,
- full load < 40W
- AC: 110~240V, 47~67Hz
- 440mm *220mm *44mm

OP-S6530-48G4P



- 48 * 10/100/1000Base-T
- 4*10GE SFP+
- 16K MAC address,
- full load < 60W
- AC: 110~240V, 47~67Hz
- 440mm *220mm *44mm

Technical Indexes

Item	OP-S6530-24G4P	OP-S6530-48G4P	OP-S6530-20G4C4P
Switching Capacity	128Gbps	176Gbps	128Gbps
Forwarding Capacity	95Mpps	130Mpps	95Mpps
Ports	24 * 10/100/1000Base-T 4*10GE SFP+	48 * 10/100/1000Base-T 4*10GE SFP+	20 * 100/1000Base-X 4*GE Combo 4*10GE SFP+
Memory and Storage	512MB SDRAM and 16MB flash memory		
Power Supply	AV: 100 ~ 240V, 47 ~ 67Hz ;		
Power Consumption	Full-load consumption ≤40W Idle-power consumption ≤13W	Full-load consumption ≤60W Idle-power consumption ≤25W	Full-load consumption ≤60W Idle-power consumption ≤20W
Dimensions (WxDxH)	440mm*220mm*44mm	440mm*300mm*44mm	440mm*280mm*44mm
Weight (Full-Loaded)	≤3kg	≤3.5kg	≤3kg
Environmental Requirements	Working temperature: -15°C ~ 50°C Storage temperature: -40°C ~ 70°C Relative humidity: 10% ~ 90%, non-condensing		

Product Features

Item		OP-S6530 Series
L2 Features	MAC	16K MAC Aging time and add/remove static MAC Port MAC Limit Disable MAC address learning on port or channel-group MAC address filtering
	VLAN	4K VLAN entries. Port-based and MAC-based VLAN Q-IN-Q
	Spanning Tree	STP/RSTP/MSTP Remote loop detecting
	Port	Bi-directional bandwidth control Static link aggregation and LACP(Link Aggregation Control Protocol) Port mirroring
Security Features	Ipv4	DHCP Relay DHCP Server Static ARP L3 forwarding specification to be 512 Static route 64 LPM (default router)
IP Routing	User's Security	Anti-ARP-spoofing Anti-ARP-flooding IP Source Guard create IP+VLAN+MAC+Port binding Port Isolation MAC address binding to the port and MAC address filtering IEEE 802.1x and AAA/Radius authentication
	Device Security	Anti-DOS attack(such as ARP, Synflood, Smurf, ICMP attack), ARP detection, worm and Msblaster worm attack SSHv2 Secure Shell SNMP v3 encrypted management Security IP login through Telnet Hierarchical management and password protection of users
	Network Maintenance	Dynamic ARP table-based binding IP+VLAN+MAC+Port binding L2 to L7 ACL flow filtration mechanism on the 80 bytes of the head of user-defined packet Port-based broadcast/multicast suppression and auto-shutdown risk port DHCP Option82 and PPPoE+ upload user's physical location

Service Features	ACL	Standard 1 K and extended ACL Time Range ACL Flow classification and flow definition based on source/destination MAC address, VLAN, 802.1p, ToS, DiffServ, source/destination IP(IPv4/IPv6) address, TCP/UDP port number, protocol type, etc packet filtration of L2 ~ L7 deep to 80 bytes of IP packet head
	QoS	Rate-limit to packet sending/receiving speed of port or self-defined flow Packet mirror and redirection of interface and self-defined flow Priority remark to port or self-defined flow and provide 802.1P, DSCP priority and Remark Super queue scheduler based on port or self-defined flow. Each port flow supports 8 priority queues and scheduler of SP, WRR, SP+WRR, etc.
	Multicast	IGMPv1/v2/v3 Snooping IGMP Filter MVR and cross VLAN multicast copy IGMP Fast leave IGMP Proxy L3 multicast to be 64
Reliability	Loop Protection	EAPS\ERPS\PVST and GERP (recover-time <50ms) Loopback-detection
	Link Protection	FlexLink (recover-time <50ms) RSTP/MSTP (recover-time <1s) LACP (recover-time <10ms)
	Device Protection	Double fault-tolerant backup of host program and configuration files
Maintenance	Network Maintenance	Port real-time, utilization and transmit/receive statistic based on Telnet LLDP 802.3ah Ethernet OAM RFC 3164 BSD syslog Protocol Ping and Traceroute
	Device Management	CLI, Console port, Telnet and WEB management Stack OAM (802.3ah and 802.1ag) VCT User hierarchical permission RADIUS SNMP V1/V2c/V3

Order Information

Model	Description
OP-S6530-24G4P	24*10/100/1000Base-T, 4*10GE SFP+ (100~240V AC/DC48)



OP-S6530-48G4P	48*10/100/1000Base-T, 4*10GE SFP+ (100~240V AC/DC48)
OP-S6530-20G4C4P	20*100/1000Base-X, 4*GE Combo, 4*10GE SFP+ (100~240V AC/DC48)

Relative SFP+ Module

Part No.	Package	Data Rate	Wavelength	Component	Output Power	Rec. Sens	Connector	Case Temp.	Reach	Multi-rate
OP-MP+885L1MD-0.3	SFP+	Up to 10.5G	850nm	VCSEL/PIN	-7.3~-1dBm	-9.9dBm	LC	C/I	0.3km	YES
OP-MP+813L1SD-10	SFP+	Up to 10.5G	1310nm	DFB/PIN	8.2~0.5dBm	14.4dBm	LC	C/I	10km	YES
OP-MP+813L1SD-10	SFP+	9.95~11.3G	1310nm	DFB/PIN	8.2~0.5dBm	14.4dBm	LC	C/I	10km	YES
OP-MP+813L1SD-40	SFP+	Up to 10.5G	1310nm	DFB/PIN	1~6dBm	-13dBm	LC	C/I	40km	YES
OP-MP+815L1SD-40	SFP+	1.25~11.3G	1550nm	EML/PIN	-1~4dBm	-16dBm	LC	C/I	40km	YES
OP-MP+815L1SD-40	SFP+	9.95~11.3G	1550nm	EML/PIN	-1~4dBm	15.8dBm	LC	C/I	40km	YES
OP-MP+815L1SD-80	SFP+	9.95~11.3G	1550nm	EML/APD	0~4dBm	-24dBm	LC	C/I	80km	YES
OP-MDCP+8xxL1SD-40	DWDM SFP+	9.95~11.3G	DWDM C-band	EML/PIN	-1~4dBm	-16dBm	LC	C/I	40km	YES
OP-MDCP+8xxL1SD-80	DWDM SFP+	9.95~11.3G	DWDM C-band	EML/APD	-1~4dBm	-24dBm	LC	C/I	80km	YES
OP-MCP+8xxL1SD-10	CWDM SFP+	Up to 10.5Gbps	1270~1330nm	DFB/PIN	8.2~0.5dBm	14.4dBm	LC	C/I	10km	YES
OP-MCP+8xxL1SD-40	CWDM SFP+	1.25~11.3G	1470~1610nm	EML/PIN	-1~4dBm	-16dBm	LC	C/I	40km	YES
OP-MCP+8xxL1SD-40	CWDM SFP+	9.95~11.3G	1470~1610nm	EML/PIN	-1~4dBm	-16dBm	LC	C/I	40km	YES
OP-MCP+8xxL1SD-60	CWDM SFP+	Up to 10.5Gbps	1270~1330nm	DFB/APD	1~6dBm	-20dBm	LC	C/I	60km	YES
OP-MCP+8xxL1SD-70	CWDM SFP+	1.25~11.3G	1470~1610nm	EML/APD	-1~4dBm	-23dBm	LC	C/I	70km	YES
OP-MCP+8xxL1SD-70	CWDM SFP+	9.95~11.3G	1470~1610nm	EML/APD	-1~4dBm	-23dBm	LC	C/I	70km	YES
OP-MP+823L1SD-10	BIDI SFP+	Up to 10.5Gbps	T1270/R1330nm	DFB/PIN	-2~3dBm	-13dBm	LC	C/I	10km	YES
OP-MP+832L1SD-10	BIDI SFP+	Up to 10.5G	T1330/R1270nm	DFB/PIN	-2~3dBm	-13dBm	LC	C/I	10km	YES
OP-MP+823L1SD-20	BIDI SFP+	Up to 10.5G	T1270/R1330nm	DFB/PIN	-2~3dBm	-13dBm	LC	C/I	120km	YES
OP-MP+832L1SD-20	BIDI SFP+	Up to 10.3Gbps	T1330/R1270nm	DFB/PIN	-2~3dBm	-13dBm	LC	C/I	40km	YES
OP-MP+823L1SD-40	BIDI SFP+	Up to 10.5G/td>	T1270/R1330nm	DFB/PIN	1~6dBm	-13dBm	LC	C/I	40km	YES
OP-MP+832L1SD-40	BIDI SFP+	Up to 10.5G/td>	T1330/R1270nm	DFB/PIN	1~6dBm	-13dBm	LC	C/I	40km	YES
OP-MP+823L1SD-60	BIDI SFP+	Up to 10.5G/td>	T1270/R1330nm	DFB/APD	1~6dBm	-20dBm	LC	C/I	60km	YES
OP-MP+832L1SD-60	BIDI SFP+	Up to 10.5G/td>	T1330/R1270nm	DFB/APD	1~6dBm	-20dBm	LC	C/I	60km	YES
OP-MP+823L1SD-10	BIDI SFP+	Up to 10.5Gbps	T1270/R1330nm	DFB/PIN	-2~3dBm	-13dBm	LC	C/I	10km	YES
OP-MP+832L1SD-10	BIDI SFP+	Up to 10.5G	T1330/R1270nm	DFB/PIN	-2~3dBm	-13dBm	LC	C/I	10km	YES

Part Relative SFP Module

Part No.	Package	Data Rate	Wavelength	Component	Output Power	Rec. Sens	Connector	Case Temp.	Reach	Multi-rate
OP-MCP4xxL1SD-40	CWDM SFP	Up to 1.25G	1270~1610nm	DFB/PIN	-5~0dBm	-25dBm	LC	C/I	40km	YES
OP-MCP4xxL1SD-80	CWDM SFP	Up to 1.25G	1270~1610nm	DFB/PIN	0~5dBm	-25dBm	LC	C/I	80km	YES
OP-MCP4xxL1SD-120	CWDM SFP	Up to 1.25G	1270~1610nm	DFB/APD	0~5dBm	-32dBm	LC	C/I	120km	YES
OP-MCP6xxL1SD-40	CWDM SFP	Up to 2.67G	1270~1610nm	DFB/PIN	0~5dBm	-18dBm	LC	C/I	40km	YES

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OP-MCP6xxL1SD-80	CWDM SFP	Up to 2.67G	1270~1610nm	DFB/APD	0~5dBm	-28dBm	LC	C/I	80km	YES
OP-MP213L1SD-20	SFP	Up to 622M	1310nm	FP/PIN	-15~-8dBm	-28dBm	LC	C/I	20km	YES
OP-MP213L1SD-40	SFP	Up to 622M	1310nm	FP/PIN	-3~-2dBm	-28dBm	LC	C/I	40km	YES
OP-MP215L1SD-80	SFP	Up to 622M	1550nm	DFB/PIN	-3~-2dBm	-28dBm	LC	C/I	80km	YES
OP-MP215L1SD-120	SFP	Up to 622M	1550nm	DFB/APD	0~5dBm	-30dBm	LC	C/I	120km	YES
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Important Notice

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