LARCH
NETWORKS

Tailor-made network hardware & software development

PRODUCT OVERVIEW

LN-3824MG-6Y-RPS

Highlights

▶ AC5X Solution

▶ Stacking With 8 Devices

▶ ITU-T G.8032 ERPS L2 Ring Protection

▶ Comprehensive and Field-Proven Software Features for ISPs/ Carriers, Providing Broadband Access, IPTV Services

▶ Full L3 Features with Commonly-Used Unicast and Multicast Routing Protocols, Redundant Routing Protocols, and DHCP Relay and Server

▶ Complete Private MIB to Fully Control and Monitor the Switch via Customer's EMS

▶ Enhanced Security and IPv6

▶ Simple Management (CLI, SNMP, Web)

▶ Marvell ROS Support

▶ Internal 2PSU

HARDWARE SPECIFICATIONS

Switching Performance

Switch ASIC	98DX3511
Ports	24x2.5GB + 6x25G Uplink Ports
Capacity	420 Gbps
MAC Address Table	32 K
Packet forwarding rate	312.48 Mpps
Jumbo Frame	9216 bytes
Auto MDI/MDI-X	Support

Hardware

Nand Flash	512 MB
DDR	2 GB

Management Port

USB	1 x USB 2.0
Serial Console	1 x RJ45
Management Port	1 x RJ45 100/1000Base-T out-of-band
Stacking	2 x SFP28 stacking led

Power

Power supply units	100-240V 50/60Hz
Power consumption	TBD

Physical and Environmental

Dimensions	442x420x43 (WxDxH)
Operating Temperature	0°C to 50°C
Operating Humidity	5% – 90% (non-condensing)

Approvals

Certificate	FCC Class A/CE/Safety
	Compliance: CB/Safety
	Compliance: UL

MARVELL ROS SOFTWARE FEATURES

Basic Functions

Port Speed/duplex management	VLANS (Protocol / MAC / IPv4 based)
Port Auto management	GVRP/GARP
VCT Diagnostics Port features	Multicast/CPE(Triple Play) VLAN
Jumbo Frames (FE and GE)	QinQ
LAG / LACP	Flow Control 802.3x
Green Ethernet	Back Pressure
STP/RSTP/MSTP etc.	Loopback and UDLD (Unidirectional link) detection
Optical Transceiver Analysis	

Quality of Service

Basic / Advanced QOS (Port/Flow)	CoS/QoS
Ingress/egress Rate Limiting/Shaping	SP/WRR Queue settings
L2/L3 CoS->Queue mapping	Per-Flow Actions

Security

Access Control and logging	Radius Authentication/Accounting/802.1x
Time based ACL	TACACS+ Client and Accounting
MAC/Port based security	Syslog
Ace priority	DHCP Snooping
802.1x enchanced (all variants)	ARP inspection
802.1x MAC/Port/Web/Time based	IP Source Guard
Secure Control Technology (protect CPU)	DoS Attach prevention
MACsec	

Monitoring

Mirroring SPAN/RSPAN	Environmental PS/RPS, FAN, Temperature
RMON/SMON	SFLOW v5
SNMP v1/2/3 with MIBs	Counters with History

Multicast

IGMP Snooping v1/2/3	*PIM-SM (optional)
MLD Snooping v1/2	IGMP/MLD Proxy
MLD Querier	Ports, Flows, CP
Unregistered Mcast	

MARVELL ROS SOFTWARE FEATURES

Management

OOB & serial Console support	DNS, DHCP, SNTP, LLDP-MED, UpnP
CLI/SNMP management (IPv4,IPv6) over Telnet or SSH	LLDP 802.1ab + LLDP MED
USB/SD flash storage support	WEB-GUI interface for basic management
DHCP based Self-Configuration/Update	Time based scheduled features
Multi-File Configs, Dual-Firmware	*Detailed REST compatible API (Optional)
RMON, Syslog, Radius, TACACS+	

Power Over Ethernet

PoE 802.3af 802.3at 60W PoE	Time Based PoE
PoE Budget with LLDP negotiation	PoE Consumption monitor
PSE/PD if HW supported	

*IP Routing (Optional)

L3 DHCP Relay	IP SLA
Proxy ARP for IP Routing	Loopback IP interface (Source Address Selection)
OSPF / RIP	Directed Broadcast
Equal Cost Multiple Path (ECMP)	UDP Relay
VRRP	IPv6 static unicast routing

*Stacking (Optional)

Optional Stacking up to 8(16) units using uplinks	Real cross-unit features, not just Management
Stand-alone and Stack-mode operation	Stack Master Election process
Firmware Version Control	Stack Backup capabilities
Unit joining or leaving the stack	Stacking Fast Failover
Stacking LAG	

*Optional Features for ROS

Ring protection	VxLAN
WEB-GUI with flexible configuration options	Radius COA
PTP	BGP

ORDERING INFORMATION

Model	Description
LN-3824MG-6Y-RPS	24x2.5G Ethernet + 4x25G, 2x25G DSP, Internal 2PSU, no PoE, 2GB DDR+512MB Nand Flash

Model includes a 1-year HW Warranty.