

SignalIX iMossa SX-04X IP-MPLS ROUTER

- ❖ **SignalIX iMossa Series MPLS-IP Router** can provide stable, reliable, secure high-performance L2/L3 switching services. G-Series MPLS-IP switch products can provide 40G to 800G switching capacity, with various port types, and can provide E1, STM-1, GE, GE(O), 10GE, 100GE interfaces to meet the network deployment requirements from access to aggregation and core layer. **SignalIX iMossaSX-04X IP-MPLS Router** is designed to meet the new challenges and requirements that wide deployment of advanced services needed from networking. The router has the following benefits
- ❖ SignalIX advanced software and hardware architecture, which uses the most high-performance multi-core processor, provides superb concurrent service processing capabilities & unparalleled network performance with 80 Gbps backplane.
- ❖ Support L2/L3 VPN, IPv4/IPv6 static and dynamic routing, sub-50ms protection LSP/PW 1:1, LAG, SNCP, dual-homing, VRRP Support IEEE 1588v2, SyncE and zero-touch provisioning
- ❖ It supports Branch Intelligent Management System (BiMS) which allows batch software upgrade, automatic configuration issuing, configuration rollback, operation monitoring, and fault alarm. Comprehensive network management methods—Supports command line and SNMP.
- ❖ **KeyFeatures:**
 - FE/GE/10GE Interfaces
 - High Performance & Stability
 - Standard IP-MPLS Technology
 - Power, FAN & OAM Redundancy
 - Powerful & Simple Management
 - Support BFD and Ethernet OAM
- ❖ **Protocols and Standards:**
 - **IEEEProtocols:**802.1p,802.1Q,802.1ad,802.3ad,802.3ah,802.1ag,802.3x,802.3z,802.3ab,802.3ac, 802.3ae, 1588v2
 - **RFCs** :1112,1850,2236,2370,2439,2457,2474,2475,2544,2547,2554,2597,2598,2740,3101, 3107,3140,3246,4364,4448,4618,4761,4762,4842,6020,6241,7011,7012
 - **ITU-TSpecification:**Y.1731,G.8113.1,G.8113.2,Y.1564

Hardware Specifications:

FEATURES	SPECIFICATIONS
Product Name & Model	SignalIX iMossa SX-04X IP-MPLS Router
Rack Type	1RU, 19" Rack mount
Full duplex switching capacity	40 Gbps
Console Management Port	1
Max power consumption	67 W
Power module redundancy	Dual AC (110 V to 280 V) Redundant Module, Hot Swappable, Surge protection of 2KVA
Cooling FAN	Hot Swappable and Redundant Fans
Interfaces Support	<ul style="list-style-type: none"> 10G Optical Ethernet - 2 Port 1G/10G Optical Ethernet – 2 Port 4 Port of Electrical GE – 4 Port
Environment standards	QM 333 certified

Detail Features:

MPLS	<ul style="list-style-type: none"> MPLS, SRMPLS, LDP, MPLS Class of service
L3 Protocols	<ul style="list-style-type: none"> OSPF, OSPFv2 and OSPFv3, eBGP, IBGP, ISIS, ECMP, PIM SM/SSM, Pv4/IPv6 static and dynamic routing
Full Carrier Ethernet Functions	<ul style="list-style-type: none"> L2/L3VPN, EPL, EVPL, VLL, E-LAN and VPLS, E-LAN, E-LINE, E-TREE. Ethernet OAM, QOS, BFD, L2MAC address Learning, CE Simulation VLAN per IEEE 802.1Q and IEEE 802.1ad, Jumbo Frames Port Mirroring, IGMPv2 and v3, IEEE 1588v2, NTP and SyncE. 2048KHz Timing interface for external Synchronization. DHCP, MPLSTE or RSVP or SRTE, TI-LFA, R-LFA, STP, RSTP, MSTP. ERPS/ITU-TG.8032v2, Open ERPS, LLDP, LLC, Flow Control. Link Aggregation. LACP, Egress Buffering, PWE3
Security	<ul style="list-style-type: none"> RADIUS, GTSM, DoS attack prevention MAC address limitation and aging, MAC address spoofing prevention Traffic Filtering, TACACS+, CAC
Equipment Redundancy & Protection	<ul style="list-style-type: none"> LSP 1:1 protection, PW 1:1 protection, LAG, SNCP, ERPS Dual-homing protection, VRRP
Ease of Deployment & Simple Management	<ul style="list-style-type: none"> Zero touch provisioning, SDN integration based on Net conf/YANG PCEP, segment routing, SNMP v2/V3