

## SignalIX iMossa SX-30X 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-30X 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 300 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-30X IP-MPLS Router
Rack Type	1RU,19" Rack mount
Full duplex switching capacity	300 Gbps
Console Management Port	1
Max power consumption	100 W
Power module redundancy	Dual DC (-40 V to -60 V) Redundant Module & Hot Swappable
Cooling FAN	Hot Swappable and Redundant Fans
Interfaces Support	<ul style="list-style-type: none"> <li>• 100G Port - 2 Ports</li> <li>• 10G Port - 8 Ports</li> <li>• 1G/10G Port - 4 Ports</li> </ul>
Environment standards	QM 333 certified

### Detail Features:

MPLS	<ul style="list-style-type: none"> <li>• MPLS, SRMPLS, LDP, MPLS Class of service</li> </ul>
L3Protocols	<ul style="list-style-type: none"> <li>• OSPF, OSPFv2 and OSPFv3, eBGP, IBGP, ISIS, ECMP, PIM SM/SSM,</li> <li>• Pv4/IPv6 static and dynamic routing</li> </ul>
Full Carrier Ethernet Functions	<ul style="list-style-type: none"> <li>• L2/L3VPN, EPL, EVPL, VLL, E-LAN and VPLS, E-LAN, E-LINE, E-TREE.</li> <li>• Ethernet OAM, QOS, BFD, L2MAC address Learning, CE Simulation</li> <li>• VLAN per IEEE 802.1Q and IEEE 802.1ad, Jumbo Frames</li> <li>• Port Mirroring, IGMPv2 and v3, IEEE 1588v2, NTP and SyncE.</li> <li>• 2048KHz Timing interface for external Synchronization.</li> <li>• DHCP, MPLS TE or RSVP or SRTE, TI-LFA, R-LFA, STP, RSTP, MSTP.</li> <li>• ERPS/ITU-TG.8032v2, Open ERPS, LLDP, LLC, Flow Control.</li> <li>• Link Aggregation. LACP, Egress Buffering, PWE3</li> </ul>
Security	<ul style="list-style-type: none"> <li>• RADIUS, GTSM, DoS attack prevention</li> <li>• MAC address limitation and aging, MAC address spoofing prevention</li> <li>• Traffic Filtering, TACACS+, CAC</li> </ul>
Equipment Redundancy & Protection	<ul style="list-style-type: none"> <li>• LSP 1:1 protection, PW 1:1 protection, LAG, SNCP, ERPS</li> <li>• Dual-homing protection, VRRP</li> </ul>
Ease of Deployment & Simple Management	<ul style="list-style-type: none"> <li>• Zero touch provisioning, SDN integration based on Net conf/YANG</li> <li>• PCEP, segment routing, SNMP v2/V3</li> </ul>