

Ethernet Aggregation Switch



Mogra208

Mogra208 is a Service-provider edge switch enabling service aggregation, ideally suited for Service Provider and enterprise networks. **Mogra208** maximizes bandwidth utilization with its QoS features and offers flexibility in configuration for aggregating customer networks from CPEs.

Key Features

- 2 x Gigabit Ethernet ports (Copper or Fiber)
- 8 x 10/100BASE-T ports
- Auto-MDI-X for copper ports
- Tagged and untagged operation
- 4096 VLAN support
- Double tagging on Gigabit ports
- Port isolation for user access security
- Broadcast, Multicast & DLF suppression support
- Granular bandwidth management
- STP/RSTP and sub-50ms recovery with MROPPP

Management

- LITEVIEW NMS software on Linux platform
- CLI based console port
- SNMP v1/v2c support
- IP address for management
- Telnet support (4 sessions)
- TFTP client services
- Logging support
- BOOTP support
- IEEE 802.3ah & Dying gasp

Description

With increased demand for Next-Gen services like Metro Ethernet, Wireless P2P, new services like Triple play and online gaming, service providers are looking for edge devices, which are feature-rich, yet simple to install and use.

Mogra208 is a Layer-2 access aggregation switch offering QoS and priority for multi-service and IMS traffic, differentiating flows based on VLANs. The protocol-rich edge switch enables Ethernet and Fast Ethernet on copper interfaces, Gigabit on copper / fiber interfaces.

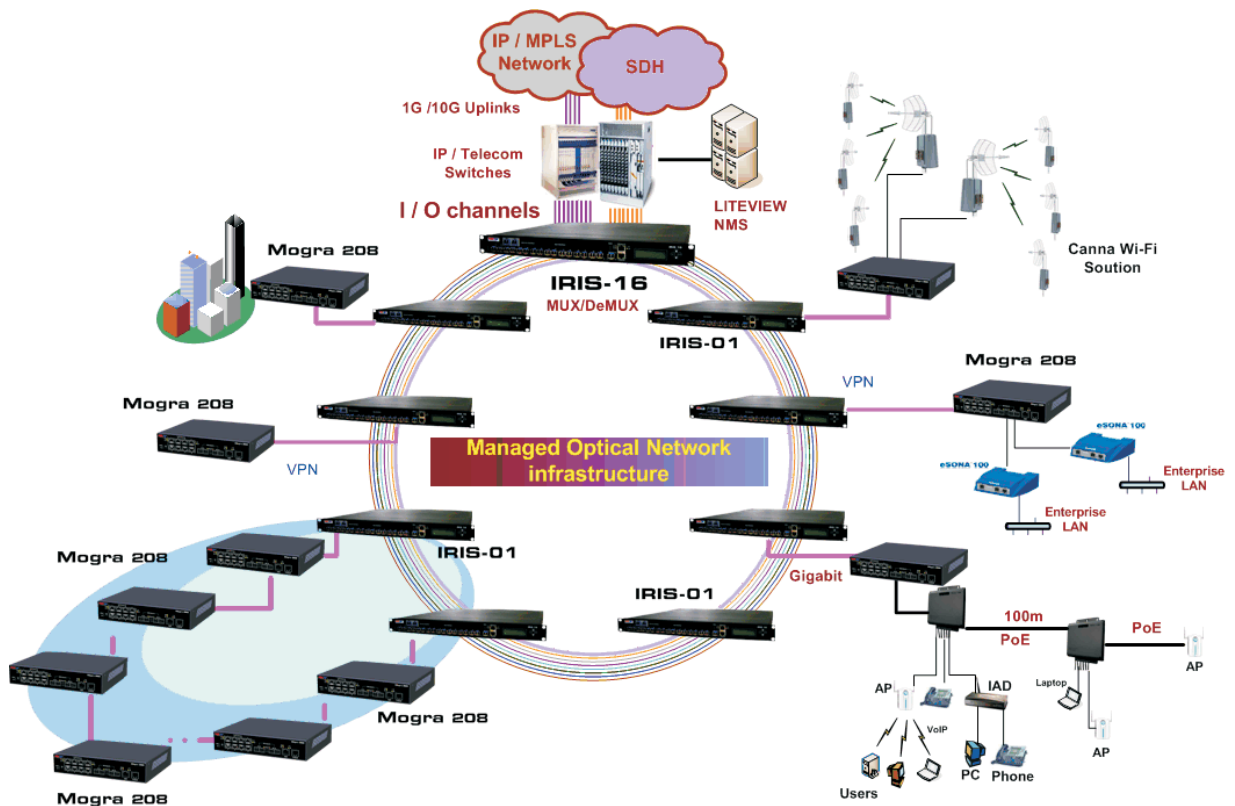
This SNMP managed device supports features that are essential for customer access provisioning and supports link diagnostics as per IEEE 802.3ah & Dying gasp.

The **Mogra208** provides Ethernet and Fast Ethernet on RJ45 copper ports, Gigabit Ethernet connectivity on Copper / Fiber media (SC connector).

Supporting IGMPv1/v2/v3 protocols along with full set of IEEE 802.1Q VLANs, RSTP and wire-speed switching among its ports, this is a true service class device, more suitable for Service Providers and Large enterprises. Content-rich management features for **Mogra208** are offered by LITEVIEW NMS, a Linux-based Management tool.

Application

Mogra208 aggregates multi-service traffic like IP/Ethernet, SDH over Ethernet, bulk traffic, video & other services at the Service Provider broadband access network. An ideal device for full functionality VLAN and Multicast support for Triple play applications like IPTV. The **Mogra208**, when combined with MRO-TEK's **iRIS**, **Daisy PoE**, **Canna Wi-Fi** & **Exora** Wi-Fi, offers complete connectivity for edge networking.



Specifications

- **Ports**
 - 2 nos - Gigabit Ethernet ports
Copper or Fiber interface ports (ordering option)
 - 8 nos - 10/100BASE-T
 - 1 no - 10/100BASE-T Management port (OOB)
 - 1 no - RJ45 based console l port
 - **Standards compliance**
 - IEEE 802.1ad Gigabit or Fast Ethernet trunks
 - IEEE802.1Q 4K VLANs, IEEE 802.1p
 - IEEE 802.3i 10BASE-T, IEEE 802.3u 100BASE-T
 - IEEE 802.3ab, IEEE 802.3z, IEEE 802.3x
 - IGMPv3 Multicast snooping & multicast forwarding
 - IEEE 802.1x + RADIUS support for port security
 - IEEE 802.1p priority mapping
 - Packet classification based on 802.1Q
 - RMON (RFC1757), MIBs,
 - IEEE 802.3ah OAM functionality
 - Support for IEEE802.1d and 802.1w (STP, RSTP/MSTP)
 - 8K MAC address
 - MAC security filtering up to 24 MAC address per port
 - Egress & Ingress rate control
 - MTU 1536
 - Dry relay monitoring port (ALARM)
 - Switching Capacity (Gbps) : 5.6
 - Forwarding Capacity (Mpps) : 4.16667
 - Maximum Jumbo frame size supported : 1536 bytes
- **Connectors**
 - Optical : SC (Gigabit only)
 - Electrical : Shielded RJ45, full/half duplex
 - **Indicators:**
 - PWR (green) : Power status
 - TST (green) : Test status
 - LNK/ACT(green) : Link & Activity indications
 - 10/100Mbps (orange) : Link speed indication
 - **Power**
 - AC input : 90-230 VAC, 50/60Hz
 - DC input : -36 ~ -60 VDC
 - **Operating Temp** : 0°– 50°C / 32°– 122°F
 - **Humidity** : 10% to 90%, non-condensing
 - **Dimensions**
(Single PSU) (LxBxH) : 220 x 242 x 44 mm,
Half - 19", 1RU

Fiber optics specifications

Module Type	Wavelength (nm)	Fiber Type (µm)	Typical Tx Power (dBm)	Typical Rx Sensitivity (dBm)	Typical Range (Kms)
MM	850	62.5/125 Multimode	-6	-14	0.22
MM	850	50/125 Multimode	-6	-14	0.5
SM15	1310	9/125 Single mode	-6	-18	15
SM40	1310	9/125 Single mode	1	-19	40
SF15	1310/1550	9/125 Single mode SF	-6	-18	15
SF40	1310/1550	9/125 Single mode SF	0.5	-19	40
SF70	1490/1550	9/125 Single mode SF	1	-20	70

Ordering Mogra208

Mogra-208/#/?/WM		2 x 1000BASE-X, 8 x 10/100BASE-T Fast Ethernet Service switch aggregator with Alarm Monitor
	#	MM/MM for multi-mode fiber
		SM15/SM15 for single mode fiber, 15Kms
		SM40/SM40 for single mode fiber, 40Kms
		GTx/GTx for Copper Gigabit RJ-45 connector
		SF15(1310Tx/1550Rx)/SF15(1550Tx/1310Rx) for Single fiber 15Kms
		SF40(1310Tx/1550Rx)/SF40(1550Tx/1310Rx) for Single fiber 40Kms
		SF70(1490Tx/1550Rx)/SF70(1550Tx/1490Rx) for Single fiber 70Kms
	?	AC for AC power supply
		DC for DC power supply



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