

Xtera 500 / Xtera 600 L-Series

Managed Layer-2 Access Switch

Layer 2 Access Switches transport bits based on the MAC address between Customer Premises Equipment and BRAS. Conventional Layer 2

Switches available today were designed keeping

in mind the enterprise networks for connecting desktops and servers and not for the way cable operators are now using such switches to distribute triple play content to individual homes.

Xtera series of switches are designed specifically with features required at this point. Features like multicasting, SNMP management, Spanning Tree, Port based VLANs all need modifications for this type of deployment. Such modifications have been carried out in Xtera series.



Features

- Wire Speed L2 Switching**
 - Wire Speed Forwarding on all ports
 - Switching Capacity: Xtera 500 1 Gbps/Xtera 600 1.2 Gbps
 - 148,880 pps for 100 Mbps
 - 14,880 pps for 10 Mbps
 - Auto negotiation of port speed

- Switching Mode**
 - Store and Forward

- VLAN**
 - Port based VLANs
 - User port tag-insertion and removal
 - Supports long frames of up to 1536 bytes
 - Fiber optic port VLAN trunking
 - 4094 Port speed 802.1Q VLANs
 - IEEE 802.1 double-tagged VLANs

- Broadcast Storm Suppression**
 - Bandwidth Rate control on Broadcast, Multicast and Flooding on all ports

- MAC Address Table**
 - Address self learning
 - IEEE 802.1D standard
 - Up to 1k MAC addresses
 - Aging

- STP**
 - Supports Spanning Tree Protocol
 - IEEE 802.1D STP

- Flow Control**
 - IEEE 802.3x flow control (full duplex)
 - Back pressure based flow control (half duplex)

- Download and upgrade**
 - Supports TFTP to implement upgrade



- **Management**
 - Command Line Interface
 - Remote Configuration through Telnet
 - Configuration through the Console port
 - Simple Network Management Protocol
 - Management system Java based through Logic Eastern Network management System (LENS)
 - Integrated Auto Discovery
 - Comprehensive set of Statistical counters for traffic analysis
 - 2 hours and 24 hours history of Performance Counters
- **Maintenance**
 - Supports PING
 - Supports remote maintenance through Telnet
- **IGMP**
 - V1 & V2 snooping
- **QoS**
 - Supports port based bandwidth control
 - Supports 802.1p priority (based on port)
 - Bi-directional port rate limitation (at 64/128/256/ 512/1024/2048/4096/8192 kbps)
 - 4 hardware Priority queues per port QoS (IEEE 802.1p)
 - WRR/Priority Scheduler
 - IEEE 802.1P class of Service/QoS(COS/QOS) on ingress & egress
- **Security Features**
 - Hierarchical User Management and password protection

Specifications

- **Optical Ports**
 - Xtera 500 One/Xtera 600 Two
 - Options:
 - 100 BaseFX Single Mode
- **Electrical Ports**
 - Four: 10/100 Mbps Ethernet
 - One: Console Port
- **LED Indicators**
 - Link/ Activity per port
 - 10/100 Mbps level per port
 - Fiber/Ethernet operation for uplink port
- **Power Supply**
 - External Power Supply
 - Input Rate Voltage: 180 – 270 VAC 50/60 Hz
- **SDRAM**
 - 8MB
- **FLASH**
 - 4MB
- **Weight**
 - Xtera 500 (420gm)/Xtera 600 (430gm)
- **Power**
 - 6 Watt (Max)
- **Operating Temperature**
 - 0°C to 65°C
- **Humidity**
 - 10% – 90% non-condensing



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