



XR-DOCSIS

Product Data Sheet

OVERVIEW

The XR-DOCSIS is a next generation multifunction access switch router, which allows operators to integrate TDM telephony and high-speed data services onto a DOCSIS carrier path. The product is a coax-based solution that is designed to interoperate with existing cable modems and Cable Modem Termination Systems (CMTS's). The XR-DOCSIS allows operators, using their cable modem infrastructure, to offer traditional DS1 TDM services to small enterprises in addition to high-speed data services without upgrading their infrastructure. The platform is ideal for small enterprises, SOHO, campus environments, high rises and residential communities.

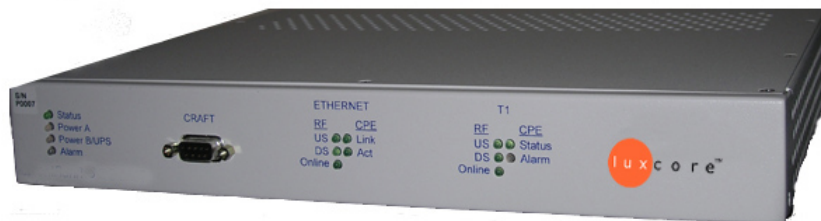
The XR-DOCSIS is an extension of the Luxcore family of switch router products, offering the ability to extend the technology developed in the Luxcore OXR3200 platform to the HFC coax plant. DOCSIS 1.1 and 2.0 network interface specifications, management, provisioning and security are maintained while providing the user traditional 10/100BASE-TX Ethernet and DS1 TDM services. As show in the diagram below, the XR-DOCSIS completes the access network for servicing business opportunities.

APPLICATIONS

- ✚ High Speed Internet
- ✚ Virtual LAN
- ✚ Transparent LAN Services
- ✚ TDM Telephony Services
- ✚ Video Streaming
- ✚ VPN
- ✚ VoIP

FEATURES

- ✚ DHCP
- ✚ Flow Control
- ✚ 10/100 Mbps Ethernet
- ✚ Broadcast Storm Control
- ✚ DOCSIS Security
- ✚ QoS Classification, Scheduling
- ✚ Software and configuration updates using TFTP
- ✚ VLAN Tagging and Priority Mapping according to 802.1p
- ✚ IGMP
- ✚ SNMP, RMON
- ✚ T1 telephony interfaces
- ✚ Wire speed performance
- ✚ DOCSIS 1.1 and 2.0 ready
- ✚ DOCSIS management and provisioning
- ✚ Data and voice service over point-to-point topology



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SPECIFICATIONS

Networking Functions

- ✚ Supports 6000 MAC addresses
- ✚ Supports 4000 VLANs
- ✚ Local provisioning
- ✚ Broadcast storm control
- ✚ BPDU tunneling
- ✚ Quality of service (QoS)
- ✚ DS-1 transport

Management Functions

- ✚ DOCSIS based management and provisioning
- ✚ T1 alarms - SNMP and dry contact
- ✚ CLI, WEB, and SNMP v1
- ✚ SNMP v2 and SNMP v3
- ✚ In-Band management
- ✚ RMON Group 2,3 and 9 (History, Alarm, and Events)
- ✚ Firmware update using TFTP, xmodem

Interfaces

- ✚ F connector
- ✚ 10/100BASE-TX: 1 port
- ✚ T1: 1 port

TDM Interfaces

- ✚ Electrical: DS-1, DSX-1
- ✚ T1 Framing formats: D4/SF, D5/ESF, Unframed
- ✚ T1 Line coding formats: B8ZS, AMI
- ✚ Transmit timing: Loop, network, adaptive, SRTS

Telephony Clock Source

- ✚ Internal: Stratum 4/4E Synchronizer
- ✚ Supports SSM

Power Requirements

- ✚ AC voltage: 120 (100 - 240) VAC, 50 - 60Hz
- ✚ Output power: 30W (typical)

Environmental Specifications

- ✚ Relative humidity: 5% - 90%, non-condensing
- ✚ Operating temperature: 0°C to 40°C (32°F to 104°F)
- ✚ Non-operating temperature: -40°C to 70°C (-40°F to 158°F)

Physical

- ✚ Dimensions: 17.5" W x 7.5" D x 1.75" H
- ✚ Weight: 6 pounds

Standards Compliance

- ✚ FCC Part 68 and Part 15 Class A
- ✚ UL 60950
- ✚ EN60950

- ✚ ANSI T1.403 DS-1
- ✚ ANSI T1.102 DSX-1
- ✚ ANSI T1.231 DS-1 management objects
- ✚ GR-1244-Core Issue-2 Stratum 4E
- ✚ IEEE 802.1D Bridging

- ✚ IEEE 802.1p Prioritizing
- ✚ IEEE 802.3 10BASE-T
- ✚ DOCSIS 1.1

- ✚ DOCSIS 2.0
- ✚ Euro DOCSIS