aurora
NETWORKS

Features

- One 10/100/1000Base-T GbE UTP port and one 1000Base-LX GbE fiber port

- Out-of-band management of SMART Media Converter modules using industry standard IEEE 802.3ah OAM

- RS-232 console port

- SNMP web-based interface with in-band management

- Internal and external loop-back test capability

- Supports PING-only mode

- Supports MIB-II, Private MIB, DHCP Client, ICMP

- Supports TFTP for on-line upgrade

- Supports user login management and port enabled/disabled

- Programmable trap and alarm settings (SNMP traps and alarm can be issued by e-mail)

- Supports detection of single fiber disconnection, case intrusion, power voltage, and operating temperature

- Supports trap log if disconnected

- LED displays for power, UTP port (Act/Link, Speed and Duplex) and fiber port (Act/Link)

- External power adapter

CWDM Gigabit Ethernet SMART Media Converter (10/100/1000Base-T to 1000Base-LX)

Aurora Networks' MC1410B series SMART Media Converter modules enable network planners to connect 10 Mbps, 100 Mbps or 1000 Mbps twisted pair network segments to single-mode fiber optic access networks.

These media converters are available in 10 different models that offer fiber port wavelengths from 1430 to 1610 nm (in 20 nm increments) for CWDM architectures. With a receiver input sensitivity of –24 dBm and output power of 0 to –5 dBm from the fiber optic port, these converters support a link budget of 19 dBm.

MC1410B series SMART Media Converter modules are supported with user-friendly SNMP management features to manage and monitor fiber optic conversions in mission critical enterprise and service provider applications.

Access Services Equipment

www.aurora.com

Physical:

- Ports:

    One 10/100/1000M RJ-45 UTP port

    One 1000Base-LX fiber port with Duplex LC connector

    DB-9 RS-232 console port

- Dimensions: 3.8" W x 5.6" D x 1.7" H
    (9.6 cm x 14.1 cm x 4.4 cm)

- Weight: 2.2 lbs (1.0 kg)

General:

- LED indicators: Power, UTP port (Act/Link, speed and duplex/collision status) and fiber port (Act/Link)

- Flow control: IEEE802.3x for full duplex, back-pressure for half duplex

Electrical:

- Input power: 5V ± 5%, 3A from external power adapter

- Power consumption: 12 W nominal

- AC-DC Adapter:

    Input: 100–240 VAC, 50/60 Hz

    Output: 5V @ 6 A

    Power: 30 W max.

    Legacy AC-DC Adapter output of 5V @ 2.5 A, 12 Watts

Environmental:

- Operating temperature range:
    0º to +50ºC (32º to 122ºF)

- Storage temperature range:
    –20º to +70ºC (–4º to 158ºF)

- Humidity: 5% to 90% non–condensing

Regulatory:

- Compliance: IEEE802.3ab, IEEE802.3z, SNMPv1

- Safety: UL

- Emissions: FCC Part 15, Class A, and CE Mark

Management Support:

- Management interface:
    In-band: Web-based
    Out-of-band: 802.3ah, RS-232

- SNMP management agent:
    MIB II (RFC 1213), Private MIB

- Software upgrade: via TFTP

Twisted-Pair Port Interface:

- Connector: Shielded/Unshielded RJ-45, 8-pin jack

- Impedance: 100 Ω nominal

- Signal level output (differential): 0.95 to 1.05 V (1000Base-T)

- Signal level input: 350 mV minimum (1000Base-T)

- Supported link length: 100 m

- Cable type:
    10 Mbps segments: CAT 3, 4 or 5 UTP (100M)
    100 Mbps segments: CAT 5 UTP (100M)
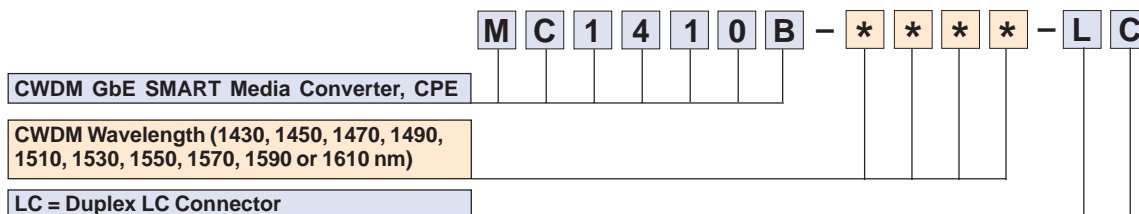   1000 Mbps segments: CAT 5e UTP (100M)

Single-Mode Fiber Optic Port Interface:

- Connector: Duplex LC

- Wavelength: 1430–1610 nm CWDM (10 wavelengths in 20 nm increments, ITU-grid compliant, G.694.2)

- Maximum input power level: –3 dBm

- Receive input sensitivity: –24 dBm

- Output power: 0 dBm to –5 dBm

- Link budget: 19 dBm

- Cable type: 9/125 μm F/O

Data Transmission / Receiving Rate at Wire Speed:

- Data rates:

    2000 Mbps full duplex (Gigabit Ethernet)

    100 Mbps half duplex (Fast Ethernet)

    200 Mbps full duplex (Fast Ethernet)

    10 Mbps half duplex (Ethernet)

    20 Mbps full duplex (Ethernet)

Ordering Information

| M | C | 1 | 4 | 1 | 0 | B | – | * | * | * | * | – | L | C |

CWDM GbE SMART Media Converter, CPE

CWDM Wavelength (1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590 or 1610 nm)

LC = Duplex LC Connector

aurora
N E T W O R K S