

1000M Looped network management media converter

Introduction

1000M double self-healing Ethernet switch series products are embedded high-performance industrial Ethernet self-healing type switches. The line speed 1000M redundancy fiber looped network structure, can achieve the fiber looped network transmission and access for multi-point of Ethernet interface.

This media converter adopts large-scale integrated circuits, high integrated transceiver devices and digital phase-locked loop technology, small extension, high reliability, support 256 fiber nodes, passive station breakdown, power down, fine automatically resection, auto input after fault recovery (the switching time is less than 5ms).

It can be composed of high quality transmission ring H.264 video signal, accumulative total transmission can as many as 300 channel, solve the traditional point-to-point optical fiber transmission video networking complex waste of resources and cost high etc problems. It's the preferred scheme of safety & security, intelligent transportation, peace city, highway, railway, electric power, financial, water conservancy, industrial control etc.



Features

- Card-type or Stand-alone type for your choice; suitable for concentration management in 2U Racks
- Using exclusive of digital technology to achieve whole network equity access, each site use free allocation according to users' needs, maximum flexibility for users.
- Specially design for power automation distribution network , industrial automation, transportation, telecommunication etc industry high reliable data communication
- Have 2 channel line speed 100M redundancy fiber interface, user interface has 3 channel 10/100M Ethernet interface, support address learning and broadcast storm control

- Through serial local management or web remote management for the entire network management, can automatically generate remote management network topology of network, the switch configuration, record and backup the log and fault.
- Take 3-CH RS - 232/485 serial, independent configured point-to-point and bus control of serial communication, baud rate is optional
- Support Web ,Telnet, Console imaging and command line management
- Can display and deploy the rack name, region information, IP address related information and soft hardware version number etc system information.
- Can inquiry and deploy this end and far-end device ports working, include connection status, rate, full/half-duplex, port shut and LFP etc.
- Support far-end power down detection, detect sending end optical connection status by far-end false signal
- Webmaster connector: RS232 Console Port (RJ45)
- Supply MIB documents, it's convenient to integrated to the third-party's SNMP webmaster software
- Support FTP on line remote upgrade function
- Network management system support devices auto discover and add function
- Support remote reset, through webmaster software set the system or single module restart
- Using centralized management, enhance the hierarchy, can manage many devices at the same time or easily operate any device.

Specifications

Item	Parameters
Ethernet Features	Network Interface: 2* 1000M,RJ45 Optical Interface:1*1000M optical expanding interface, 2*1000M up and down interface (for loop) Interface Speed Rate: 10/100/1000Mbps Auto-adaptation, the default is 1000MBPS working condition Interface Type: RJ45 Transmit mode: IEEE 802.3,IEEE 802.3u,IEEE 802.3x, store-and-forward process mode Doublet: 0-100M (standard CAT5,CAT5e network cable) Supporting Agreements: IEEE802.3U 100Base-TX, 10/100/1000M Ethernet standard, Full-duplex or half-duplex (Auto Negotiation)
Data Interface	RS232:2 RS485: 1 Webmaster serial: 1 up (RS232) Interface: standard industrial connecting terminals

	<p>Controlling Equipments: PTZ decoder, Keyboard ,data interface of Matrix, High speed dome camera, industrial equipments</p> <p>Interface Signals: RS-485(2 lines),RS232,RS422 and so on</p>
RS232	<p>RS-232 data speed rate DC-115.2Kbps</p> <p>RS-232 error of bit rate $\leq 10E-12$</p> <p>RS-232 data agreement fully supporting all kinds of RS-232 agreement</p> <p>RS-232 Network Connecting way Bi-directional</p> <p>RS-232 supporting point to point</p>
RS485/RS422	<p>RS-485/RS422 data speed rate DC-250Kbps</p> <p>RS-485/RS422 error of bit rate $\leq 10E-12$</p> <p>RS-485/RS422 Max node number: 128</p> <p>RS-485/RS422Max distances: 1200meter</p> <p>RS-485/RS422 data agreement fully supporting all kinds of RS-485/RS-422 agreement, including the Modbus agreements</p>
Hardware Platform	<p>NMS network management system hardware platform for microcomputer server (e.g DELL POWERDGE 1300 etc), SUN workstation IPX and above type is optional</p> <p>System RAM above 64M, recommend use 128M</p> <p>Hardware volume above 10G, recommend to use 20G, so as to store vast webmaster data</p> <p>CPU use Intell PIII 500E or above, recommend Intel PIII 800EB</p> <p>Suggest use 17" or above display</p>
Software Environment	<p>NMS Installation, the default is java environment, users can use the system's java environment, also can use the file default jre environment. If use system's java environment, use jre 1.5 version or above</p> <p>Mysql 5.0 version or above</p> <p>Web support Netscape 4.0, IE5.0 and above version browser</p> <p>Serial port: Networking channel, baud rate can support 9600 or 19200BPS</p>
Power supply	85VAC~265VAC, -40VDC~-57VDC
Dimensions	426 *312 * 90 mm (W×D×H) 19" 1U
Environment	<p>Operating Temperature :0℃~50℃</p> <p>Storage Temperature :-10℃~70℃</p> <p>Operating Humidity :10%~90% non-condensing</p> <p>Storage Humidity :5%~95% non-condensing</p>

Fiber Features

Type	wavelength (nm)	TX power dBm	Distance Km	Loss dBm/Km	Allowable loss dBm	Fiber Type
Multi mode	850	-19.5~-16	0~0.5	3	12	850nm(Multi-mode)
Single-mode	1310	-12~-7	0~20	0.5	16	Single-mode(9/12.5um)
Type	1310	-8~-5	0~40	0.5	20	Single-mode(9/12.5um)
	1550DFB	-5~-1	0~60	0.25	25	Single-mode(9/12.5um)
	1550DFB	-1~+2	0~100	0.25	26	Single-mode(9/12.5um)

Fiber interface is usually ST, can customized SC or FC