



Hardened Gigabit Ethernet Managed Switch

FRM220A-1002ES

(Former Name: FRM220A-ESW-G2G02XM)

1 Ethernet Switch

The FRM220A-1002ES is an industrial grade dual copper to dual fiber Gigabit Ethernet managed switch designed to make conversion between 10/100/1000Base-T and 100/1000Base-SX/LX with SFP connector. With SNMP and Web-based management in the FRM220 or FRM220A chassis the network administrator can monitor, configure and control the activity of each FRM220A-1002ES switch card locally via the SNMP manager, the functions including bandwidth control, QoS, VLAN, duplex and speed configuration. The FRM220A-1002ES managed switch is available in models that support operating temperatures from -40 to 85 degree C.

Features

- 2 Port 10/100/1000BASE-T to 2 Port 100/ 1000BASE-X Converter
- Auto-Cross over for MDI/MDIX in TP port
- Auto-Negotiation or Manual mode in TP port
- Support flow control Enable or Disable
- Support Jumbo Frame 10K Bytes
- Support 16 Tag VLAN Group
- Support Double VLAN tag (Q-in-Q)
- Support Bandwidth control
- Support Loop Back Test
- Support Link Fault Pass Through (LFP) Function
- Support Auto Laser Shutdown (ALS) Function
- Support local management on FRM220A rack management.
- Console management on stand-alone.
- Support D/D function for SFP fiber transceiver
- Provide Product information for management
- Support the local management (Monitor or Configure status) by the SNMP manager.
- Support FRM220A for Ethernet Aggregation

Specifications

Optical Interface

Connector: SFP-LC
Data rate: 100Mbps, 1000Mbps
Duplex mode: Full duplex

Fiber

MM 50/125µm, 62.5/125µm.
 SM 9/125µm

Distance

MM 2km, SM 15/30/50/80/120km,
 WDM 20/40/60/80km

Wavelength

MM 1310nm, SM 1310,1550nm
 WDM 1310Tx/1550Rx (type A)
 1550Tx/1310Rx (type B)

Electrical Interface

Connector: RJ45
Data rate: 10Mbps, 100Mbps , 1000Mbps
Duplex mode: Half / Full duplex
Cable: 10Base-T Cat.3, 4, 5, UTP,
 100Base-TX Cat.5, 5e or higher
 1000Base-X Cat.5e or higher

Standard

IEEE 802.3, IEEE 802.3u, 802.3z, 802.3ab, 802.1Q,
 802.3X, 802.1ad

LED Indications

PWR, LNK1, LNK2, TEST, LAN Link, LAN SPEED

Power

Power Input: DC 12V in
Power Consumption: < 5W

Mechanical

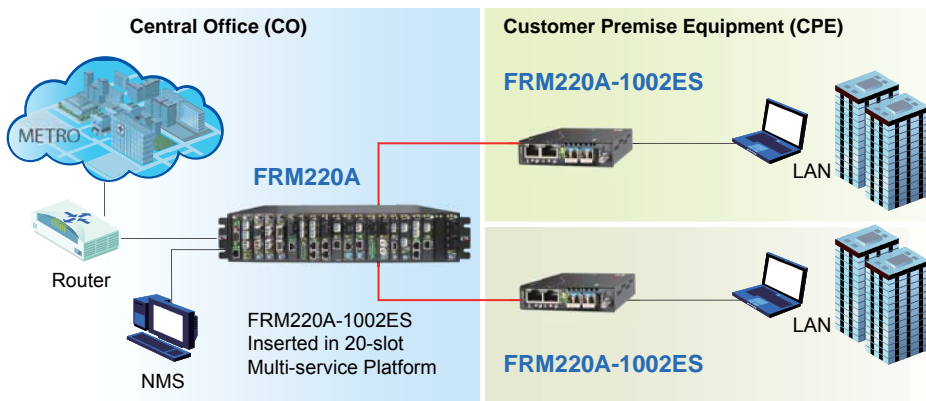
Dimension:
 155 x 88 x 23mm (DxWxH)
Weight
 120g
Physical Characteristics
 Housing: Metal

Environmental

Temperature
 Operating: -40 ~ 85°C
 Storage: -40 ~ 85°C
Humidity
 0 ~ 95% non-condensing

Certification

FCC Part 15 Class A, CE Mark



Ordering Information

Model Name	Description
FRM220A-1002ES	2-Port 10/100/1000Base-T to 2-Port 100/1000Base-SX/LX SFP GE Manage Switch