# G.Geetha

# 2320030487

# ISR4331 Router1

ISR4331 Router1 :

It contains physical modules like :

* NIM-2T : The **NIM-2T** module adds **two high-speed serial ports** to the Cisco ISR4331, making it a versatile solution for connecting to legacy WAN infrastructures or serial-based devices. It is an essential component for businesses and industries that still rely on serial WAN technologies or need to integrate older network systems with modern routing platforms.
* NIM-cover : The **NIM-Cover** is a simple but essential accessory for the ISR4331 router, ensuring the device remains protected, efficient, and compliant with operational standards when NIM slots are not in use.
* NIM-ES2-4 : The **NIM-ES2-4** enhances the Cisco ISR4331 router by adding four Gigabit Ethernet ports with Layer 2 switching capabilities, making it a versatile choice for various networking applications that require integrated switching solutions.
* GLC-GE-100FX : The **GLC-GE-100FX** is a versatile SFP module for providing **100 Mbps Fast Ethernet fiber connectivity** over multimode fiber in Cisco routers like the ISR4331. It is especially useful in environments where fiber optic connections are preferred due to distance or interference considerations.
* GLC-LH-SMD : The **GLC-LH-SMD** is a high-performance SFP module designed to provide **Gigabit Ethernet fiber connectivity** over both single-mode and multimode fiber. It is an excellent choice for connecting the ISR4331 router to fiber-based networks, enabling flexible and high-speed network deployments for a wide range of applications.
* GLC-T : The **GLC-T** SFP module is a cost-effective solution for enabling **Gigabit Ethernet over copper** cabling in the Cisco ISR4331. It is an excellent choice for connecting devices within short distances in environments where copper Ethernet infrastructure is already in place.
* GLC-TE : The **GLC-TE** SFP module provides **Gigabit Ethernet over copper** connections for Cisco devices like the ISR4331. It is ideal for reliable, high-performance Ethernet connectivity in environments with existing copper cabling infrastructure. Its enhanced features make it suitable for a wider range of operating conditions compared to the standard GLC-T.
* Attributes :

MTBF : 587250

COST: 3000

POWER SOURCE: 0

RACK UNITS

WATTAGE : 530

* This product contains cryptographic features and is subject is to united states and local country laws governing import, export, transfer and use.
* For installing the hardware :

Check for PCIe device presence.

System integrity status : 0x610

Rom image verified correctly.

* It’s CONFIG :

GLOBAL : its contains settings and algorithm settings

ROUTING : static and RIP

SWITCHING : VLAN database

INTERFACE : GigabitEthernet0/0/0 , GigabitEtherbet0/0/1 , GigabitEtherner0/0/2.

To enable the user : Router>enable

To exit from the user : Router(config-if)#exit

# Router2 ISR43321

ISR43321 Router 2:

It contains physical modules like :

* NIM-2T : The **NIM-2T** module equips the ISR43321 with two high-speed serial ports, enabling seamless integration with legacy WAN networks and serial-based communication systems. It is a practical choice for businesses and industries that need to maintain or transition from traditional serial networks while leveraging the advanced features of Cisco's ISR 4000 Series routers.
* NIM-cover : The **NIM-cover** in the ISR43321 is a protective blanking plate for unused NIM slots. It ensures proper cooling, protects the router's internals, and maintains a clean and professional appearance. It can be easily removed when a Network Interface Module is added to the slot.
* NIM-ES2-4 : The **NIM-ES2-4** is a **Network Interface Module** for the Cisco ISR43321 router, providing **4 Gigabit Ethernet ports** for expanded connectivity. It is ideal for environments that require multiple high-speed Ethernet connections for LAN or WAN interfaces. With Layer 2 and Layer 3 capabilities, the module supports advanced networking configurations, such as routing, VLANs, and redundancy, making it a versatile expansion option for network growth.
* GLC-GE-100FX : The **GLC-GE-100FX** is a **Gigabit Ethernet SFP module** for **fiber-optic** connectivity, providing reliable and high-speed network links over **100Base-FX** multimode fiber. It is commonly used with the **ISR43321** router (via a compatible NIM or Ethernet module with SFP slots) to enable fiber-based network connections for medium-distance applications, typically up to **2 kilometers**. This module is ideal for environments needing fiber connections for data centers, enterprise networks, or WAN links, providing flexibility and performance for modern network designs.
* GLC-LH-SMD : The **GLC-LH-SMD** is a **Gigabit Ethernet SFP module** that provides **long-range fiber-optic connectivity** over **single-mode fiber**. It is ideal for applications requiring connections over distances up to **10 kilometers** using **1310 nm wavelength**. The module is compatible with Cisco ISR routers, including the **ISR43321**, through an appropriate **NIM** or Ethernet module with SFP slots. It is commonly used for connecting remote sites, data centers, or within large campus networks, ensuring reliable and high-performance communication.
* Attributes :

MTBF : 587250

COST: 3000

POWER SOURCE: 0

RACK UNITS : 1

WATTAGE : 260

* To install the hardware :

check the system integrity status : 00000610

Rom image verified correctly

System Bootstrap, version 15.4(3r) s5, RELESE SOFTWARE

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* It’s CONGIF :

GLOBAL : its contains settings and algorithm settings

ROUTING : static and RIP

SWITCHING : VLAN database

INTERFACE : GigabitEthernet0/0/0 , GigabitEtherbet0/0/1

* 4194304k bytes of physical memory.
* 32768k bytes of non-volatile configuration memory.
* 3223551K bytes of flash memory at boot flash.

# 2901 Router

It contains physical modules like:

* HWIC-1GE-SFP : The **HWIC-1GE-SFP** is a **Gigabit Ethernet interface card** designed for the **Cisco 2901 router**. It provides a **single SFP port** that can accommodate various **SFP modules**, offering flexibility for either **fiber-optic** or **copper** Gigabit Ethernet connections. It is ideal for high-speed **WAN connectivity** and **network expansion**, and is easily installed in one of the router's **HWIC slots**. The module's ability to use different SFP transceivers makes it a versatile solution for many networking environments, from small office setups to larger, more complex networks.
* HWIC-2T : The **HWIC-2T** is a **High-Speed WAN Interface Card** for the **Cisco 2901 router**, providing **two serial WAN ports** for connecting to **T1/E1 lines**, **Frame Relay**, and other legacy WAN technologies. It is ideal for businesses that still rely on older WAN services, offering flexibility in connecting to various serial interfaces. By installing the HWIC-2T, you can expand the router's WAN capabilities and maintain compatibility with traditional networking technologies.
* HWIC-4ESW : The **HWIC-4ESW** is a **Layer 2 Ethernet switching card** for the **Cisco 2901 router**, providing **four 10/100 Ethernet ports** for local network connections. It is ideal for expanding Ethernet connectivity in small office or branch office environments that require basic LAN connectivity and **VLAN** support. The module simplifies network design by providing basic Ethernet switching without the need for additional switches, making it a cost-effective solution for smaller, less demanding network setups. However, it is limited to **10/100 Mbps speeds** and **Layer 2 functions**, making it less suitable for high-speed or more complex network environments.
* HWIC-8A : The **HWIC-8A** is a **High-Speed WAN Interface Card** for the **Cisco 2901 router**, providing **eight asynchronous serial ports** for connecting to legacy WAN technologies like **dial-up**, **ISDN**, **Frame Relay**, and **PPP**. It is a cost-effective solution for adding multiple serial ports to a router and is ideal for businesses that still rely on legacy serial WAN connections for remote office connectivity or backup links. However, it is important to note that the module is limited to **serial communication** and does not support high-speed Ethernet or modern WAN technologies.
* WIC-Cover : The **WIC-Cover** is a **blank cover** for unused **WAN Interface Card slots** on Cisco routers, including the **Cisco 2901**. Its purpose is to protect the internal components of the router from dust and debris, prevent physical damage to the open slot, and maintain a neat, professional appearance. It does not provide any operational functionality but is important for protecting unused slots.
* GLC-LH-SMD : The **GLC-LH-SMD** is a **Gigabit Ethernet SFP** module designed for **long-range fiber-optic** connections over **single-mode fiber**. It supports **1 Gbps speeds** with a transmission range of up to **10 kilometers**, making it suitable for high-speed, long-distance connections in enterprise networks. The module’s **SFP** form factor ensures ease of installation, and it is typically used for connecting remote offices, data centers, or other long-range network segments.

It’s CONGIF :

GLOBAL : its contains settings and algorithm settings

ROUTING : static and RIP

SWITCHING : VLAN database

INTERFACE : GigabitEthernet0/0/0 , GigabitEtherbet0/0/1

* To install Read only ROMMON :

Program load complete, entry point: 0x80803000, size:0xlb340

It contains memory like :

255K bytes of non-volatile configuration memory

249856K bytes of ATA system CompactFlash 0 (Read/Write)

* Attributes :

MTBF : 3000000

COST: 730

POWER SOURCE: 0

RACK UNITS : 2

WATTAGE : 40

* It is an IOS command line interface
* Total memory size = 512MB
* On-board = 512MB
* DIMM0 = 0MB

# 1941 Router

It contains physical modules like:

* HWIC-1G3-SFP : The **HWIC-1G3-SFP** is a **modular network interface card** for the **Cisco 1941 router**, providing **three Gigabit Ethernet SFP ports**. This module enables flexible, high-speed WAN connectivity using **fiber-optic** or **copper Ethernet** connections, and it supports different types of **SFP modules** to meet varying network needs. It is ideal for businesses that require scalable, high-performance network connectivity for connecting to wide-area networks, cloud services, or remote locations. The card is hot-swappable and easily integrates into the router, offering a flexible solution for modern network infrastructure.
* HWIC-2T : The **HWIC-2T** is a **High-Speed WAN Interface Card** for the **Cisco 1941 router**, offering **two T1/E1 ports** for **serial WAN connections**. It provides **reliable, high-speed** connectivity for enterprises needing to connect to **T1/E1 circuits** for **data, voice, or hybrid services**. The card is ideal for **redundant WAN links**, **voice and data integration**, and **private leased line** applications. It supports a range of technologies such as **Frame Relay** and **PPP**, offering a flexible and cost-effective solution for expanding or upgrading WAN connectivity.
* HWIC-4ESW : The **HWIC-4ESW** is a **High-Speed WAN Interface Card** for the **Cisco 1941 router**, offering **four 10/100 Ethernet switch ports** for **Layer 2 switching** functionality. providing the ability to segment traffic with **VLANs** and enabling cost-effective LAN connectivity. This module is especially useful in environments where space, cost, and simplicity are important
* HWIC-8A
* WIC-COVER
* GLC-LH-SMD

CONFIG:

• GLOBAL

1. Settings

2. Algorithm Settings

• ROUTING:

1. Static

2. RIP

• SWITCHING:

1. VLAN Database

• INTERFACE:

2. GigabitEthernet0/0

3. GigabitEthernet0/1

CLI:

• This product contains cryptographic features and is subject to united states and local country laws governing import, export, transfer and use.

• Delivery of cisco cryptographic products does not imply third party authority to import, export, distribute or use encryption.

• By using this product you agree to comply with applicable laws and regulations.

ATTRIBUTES:

1. MTBF - 300000

2. COST - 650

3. POWER SOURCE - 0

4. RACK UNITS - 2

5. WATTAGE – 35

# 2911 Router

It contains physical modules like:

* HWIC-1G3-SFP : The **HWIC-1G3-SFP** is a **high-speed WAN interface card** for the **Cisco 2911 router**, offering **three Gigabit Ethernet SFP ports**. These ports provide **flexible connectivity** to a range of network environments, including **fiber-optic** and **copper Ethernet** networks.. The card is ideal for providing **redundant**, **high-speed WAN links**, **load balancing**, and **failover** in business-critical environments.
* HWIC-2T : The **HWIC-2T** is a **High-Speed WAN Interface Card** for the **Cisco 2911 router** that provides **two T1/E1 ports** for connecting to leased lines or other WAN circuits **high-speed WAN connectivity** for **remote offices**, **private lines**, or **branch-to-branch communication**.. While it supports legacy technologies, businesses should consider their long-term bandwidth needs when choosing this module, as T1/E1 may be less suitable for high-demand or modern networks.
* HWIC-4ESW : The **HWIC-4ESW** is a **High-Speed WAN Interface Card** for the **Cisco 2911 router**, providing **four Fast Ethernet switch ports** to add **Layer 2 switching** capabilities to the router making it a versatile solution for small-to-medium-sized networks that require **network segmentation** and **LAN connectivity**.
* HWIC-8A
* WIC-COVER
* GLC-LH-SMD

CONFIG:

• GLOBAL

1. Settings

2. Algorithm Settings

• ROUTING:

1. Static

2. RIP

• SWITCHING:

1. VLAN Database

• INTERFACE:

2. GigabitEthernet0/0

3. GigabitEthernet0/1

4. GigabitEthernet0/2

* To install Read only ROMMON :

Program load complete, entry point: 0x80803000, size:0xlb340

ATTRIBUTES:

1. MTBF - 400000

2. COST - 850

3. POWER SOURCE - 0

4. RACK UNITS - 2

5. WATTAGE – 50

CLI:

\*

This product contains cryptographic features and is subject to united states and local country laws governing import, export, transfer and use.

# 819HG-4G-IOX Router

* It contains physical modules

It’s CONFIG:

* GLOBAL :

1. Settings
2. Algorithm settings

* ROUTING :

1. Static
2. RIP

* SWITCHING :

1. VLAN database

* INTERFACE:

1. GigabitEthernet0 : G**igabitEthernet0** in the **Cisco 819HG-4G-IOX router** is a high-speed Ethernet interface that facilitates **network connectivity**, either to an external network (WAN) or within a local area network (LAN). It plays a central role in delivering fast data transmission and supporting network features for both small and medium-sized businesses or remote locations.
2. FastEthernet0 : **FastEthernet0** in the **Cisco 819HG-4G-IOX router** is a **100 Mbps Ethernet interface** used for network connectivity.
3. FastEthernet1 : **FastEthernet1** in the **Cisco 819HG-4G-IOX router** is a **100 Mbps Ethernet interface** used to connect the router to other network devices, whether for **LAN** or **WAN** connectivity.
4. FastEthernet3
5. Serial0 : **Serial0 is a serial interface used for WAN connectivity . While serial interfaces are becoming less common with the rise of faster Ethernet and fiber-optic connections**
6. Ethernet1
7. VirtualPortGroup0
8. Cellular0

CLI :

* Total memory size = 1024 MB
* C819HGW-V-A-K9 platform with 1048576k bytes of main memory
* Main memory is configured to 32 bit mode
* Read only ROMMON installed

ATTRIBUTES:

1. MTBF - 300000

2. COST - 1500

3. POWER SOURCE - 0

4. RACK UNITS - 1

5. WATTAGE – 20

# 819HGW Router

* It contains physical module

It’s CONFIG:

* GLOBAL :

1. Settings
2. Algorithm settings

* ROUTING :

1. Static
2. RIP

* SWITCHING :

1. VLAN database

* INTERFACE:

1 . GigabitEthernet0 : **GigabitEthernet0** means it's a Gigabit Ethernet interface (capable of 1 Gbps speeds), and the "0" typically indicates that it's the first Ethernet port on the device.

1. FastEthernet0 : **FastEthernet0** in the **Cisco 819HGW router** is a **100 Mbps Ethernet interface** used for network connectivity.
2. FastEthernet1 : **FastEthernet1** in the **Cisco 819HGW router** is a **100 Mbps Ethernet interface** used to connect the router to other network devices, whether for **LAN** or **WAN** connectivity.
3. FastEthernet2
4. FastEthernet3
5. Serial0
6. Wlan-GigabitEthernet0
7. Wlan-ap0
8. Cellular0

CLI:

* Total memory size = 1024 MB
* C819HGW-V-A-K9 platform with 1048576k bytes of main memory
* Main memory is configured to 32 bit mode

ATTRIBUTES:

1. MTBF - 300000

2. COST - 2000

3. POWER SOURCE - 0

4. RACK UNITS - 1

5. WATTAGE – 20

# 829 Router

* It contains physical modules like :

1. GLC-T : **GLC-T** is a model of **Gigabit Ethernet transceiver. used to enable high-speed network connections. The "T" in GLC-T stands for "Twisted Pair"**
2. GLC-TE : The **GLC-TE** is a **hot-swappable** transceiver, meaning you can remove and replace it while the router is running, though it's always a good practice to check if hot swapping is supported in your specific setup.

It’s CONFIG:

* GLOBAL :

1. Settings

2. Algorithm settings

* ROUTING :

1. Static
2. RIP

* SWITCHING :

1. VLAN database

* INTERFACE:

1. GigabitEthernet0
2. GigabitEthernet1
3. GigabitEthernet2
4. GigabitEthernet3
5. GigabitEthernet4
6. Wlan-ap0
7. Wlan-GigabitEthernet0
8. GigabitEthernet5
9. Cellular0
10. Cellular1

* Reset reason : reload
* BIOS platform : IR800
* BIOS version : 8

ATTRIBUTES:

1. MTBF - 300000

2. COST - 3000

3. POWER SOURCE - 0

4. RACK UNITS - 1

5. WATTAGE – 70

# CGR 1240 Router

It contains physical module like :

* 1240-Cover : The **1240-Cover** is a **hardware accessory** designed to cover and protect the internal parts of the **CGR 1240** router.
* ROUTER-ADAPTER : The **ROUTER-ADAPTER** in the **CGR 1240** router is typically used to add additional **network interfaces**, such as **Ethernet ports**, **serial ports**, or **wireless modules** to the router.
* GLC-FE-100FX-RGD : **GLC-FE-100FX** is a **100 Mbps (Fast Ethernet)** fiber-optic transceiver module. It supports **100BASE-FX**, which is a Fast Ethernet standard for fiber-optic connections. This transceiver is designed for **fiber-optic networks**, providing a high-speed, reliable, and long-distance connection compared to traditional copper-based Ethernet.

It’s CONFIG:

* GLOBAL :

1. Settings

2. Algorithm settings

* ROUTING :

1. Static
2. RIP

* SWITCHING :

1. VLAN database

* INTERFACE:

1. GigabitEthernet0/1
2. FastEthernet2/3
3. FastEthernet2/4
4. FastEthernet2/5
5. FastEthernet2/6
6. GigabitEthernet2/1
7. GigabitEthernet2/2
8. Dot11Radio2/1

* Processor board ID JAD183800DC
* 802.11 Radio
* Fast Ethernet interface(s)

ATTRIBUTES:

1. MTBF - 3000000

2. COST - 250

3. POWER SOURCE - 1

4. RACK UNITS – 2

5. WATTAGE – 5

# Router-pt

It contains physical modules like :

* PT-ROUTER-NM-1AM : The **PT-ROUTER-NM-1AM** is a **network module** designed for specific Cisco routers (likely within the **Packet Tracer** simulation environment or a part of **Cisco physical routers** used in lab settings).
* PT-ROUTER-NM-ICE : The **PT-ROUTER-NM-ICE** is a **network module** designed for use in **Cisco routers** within the **Packet Tracer** simulation environment.
* PT-ROUTER-NM-1CFE : **PT-ROUTER-NM-1CFE** is a **network module** that provides a **Fast Ethernet** (FE) connection in the **Cisco Packet Tracer** simulation tool.
* PT-ROUTER-NM-1CGE : The **PT-ROUTER-NM-1CGE** is a **network module** that provides a **Gigabit Ethernet (GigE)** port to a router in the **Cisco Packet Tracer** environment.
* PT-ROUTER-NM-1FFE
* PT-ROUTER-NM-1FGE
* PT-ROUTER-NM-1S
* PT-ROUTER-NM-1SS
* PT-ROUTER-NM-COVER

It’s CONFIG :

* GLOBAL :

1. Settings
2. Algorithm settings

* ROUTING :

1. Static
2. RIP

* INTERFACE :

1. FastEthernet0/0
2. FastEthernet1/0
3. Serial2/0
4. Serial3/0
5. FastEthernet4/0
6. FastEthernet5/0

* Processor board ID PT0123
* PT2005 processor: part number 1, mask 01
* 32k bytes of non-volatile config memory
* 63488K bytes of ATA CompactFlash

ATTRIBUTES:

1. MTBF - 3000000

2. COST - 150

3. POWER SOURCE - 0

4. RACK UNITS – 2

5. WATTAGE – 35

# Router-PT-EMPTY

It contains physical modules like :

* PT-ROUTER-NM-1AM : This module likely refers to an **interface module** that adds an **Ethernet** or **other network ports** to a router in the **Cisco Packet Tracer** simulation.
* PT-ROUTER-NM-ICE : This module appears to represent a **communication equipment** module in Packet Tracer. The name **ICE** suggests it may be used for **Integrated Communication Equipment**, which could be useful for adding voice, telephony, or other communication functionality to the router.
* PT-ROUTER-NM-1CFE : The **1CFE** in the module name stands for **one Fast Ethernet (FE)** port, meaning this module adds a **Fast Ethernet port (100 Mbps)** to the router in the Packet Tracer simulation.
* PT-ROUTER-NM-1CGE
* PT-ROUTER-NM-1FFE
* PT-ROUTER-NM-1FGE
* PT-ROUTER-NM-1S
* PT-ROUTER-NM-1SS
* PT-ROUTER-NM-COVER

It’s CONFIG :

* GLOBAL :

1. Settings
2. Algorithm settings

* ROUTING :

1. Static
2. RIP

* INTERFACE
* 32k bytes of non-volatile config memory
* 63488K bytes of ATA CompactFlash
* Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph ( c) of the commercial computer software – Restricted rights clause at FARS sec. 52.227-19.
* Subgraph software clause at DFARS sec. 252.227-7013.

ATTRIBUTES:

1. MTBF - 3000000

2. COST - 150

3. POWER SOURCE - 0

4. RACK UNITS – 2

5. WATTAGE – 35

# 1841 Router

It contains physical modules like :

* HWIC-1GE-SFP : he **HWIC-1GE-SFP** is a **Gigabit Ethernet Interface Card** for the **Cisco 1841** router. It supports **Gigabit Ethernet** connections using **SFP (Small Form-factor Pluggable)** modules.
* HWIC-2T : The **HWIC-2T** is a **High-Speed WAN Interface Card** that provides **two 10/100 Mbps Ethernet ports** for the **Cisco 1841 router**.
* HWIC-4ESW : The **HWIC-4ESW** is a **4-port Ethernet Switch Module** designed for use with the **Cisco 1841 router**. It adds **Layer 2 switching** capabilities to the router, providing 4 additional **Ethernet ports** for network devices.
* HWIC-AP-AG-B
* WIC-1ENET
* WIC-1T
* WIC-2AM
* WIC-2T
* WIC-Cover
* GLC-LH-SMD

It’s CONFIG :

* GLOBAL :

1.Settings

2.Algorithm settings

* ROUTING :

1.Static

2.RIP

* SWITCHING : VLAN database
* INTERRFACE :

1. FastEthernet0/0
2. FastEthernet0/1

* Cisco 1841 with 114688k/16384K bytes of memory.
* 191K bytes of NVRAM

ATTRIBUTES:

1. MTBF - 3000000

2. COST - 500

3. POWER SOURCE - 0

4. RACK UNITS – 1

5. WATTAGE – 35

# 2620-XM Router

It contains physical modules like :

* NM-1E : The **NM-1E** is a **1-port Ethernet Network Module** for the **Cisco 2620-XM router**. It provides **one 10/100 Mbps Fast Ethernet port** to the router, allowing you to connect it to other devices in the network.
* NM-1E2W : The **NM-1E2W** is a **1-port Ethernet + 2-port WAN** module for the **Cisco 2620-XM router**. It adds **one Fast Ethernet (10/100 Mbps)** port and **two WAN interface ports**, typically for use in WAN or LAN connections.
* NM-1FE-FX :  The **NM-1FE-FX** is a **1-port Fast Ethernet (FE) Fiber Network Module** for the **Cisco 2620-XM router**. It provides **one Fast Ethernet port** (10/100 Mbps) over **fiber-optic connections** using **SC, LC, or MTRJ connectors** depending on the type of **fiber module** used.
* NM-1FE-TX
* NM-1FE2W
* NM-2FE2W
* NM-2W
* NM-4A/S
* NM-4E
* NM-8A/S
* NM-8AM
* NM-Cover
* WIC-1AM
* WIC-1T
* WIC-2AM
* WIC-2T
* WIC-Cover

It’s CONFIG :

* GLOBAL :

1. Settings
2. Algorithm settings

* ROUTING :

1. Static
2. RIP

* INTERFACE : FastEthernet0/0
* 32k bytes of non-volatile config memory
* 63488K bytes of ATA CompactFlash

ATTRIBUTES:

1. MTBF - 3000000

2. COST - 100

3. POWER SOURCE - 0

4. RACK UNITS – 1

5. WATTAGE – 70

# 2621-XM Router

It contains physical modules like :

* NM-1E : The **NM-1E** is a **1-port Ethernet Network Module** for the **Cisco 2621-XM router**. It provides **one Fast Ethernet (10/100 Mbps)** port, allowing you to connect the router to a local area network (LAN) or other Ethernet-enabled devices.
* NM-1E2W : The **NM-1E2W** is a **1-port Ethernet + 2-port WAN** Network Module for the **Cisco 2621-XM router**. This module provides **one Fast Ethernet (10/100 Mbps)** port and **two WAN interface ports** (usually for **Serial** or **ISDN** connectivity).
* NM-1FE-FX : The **NM-1FE-FX** is a **1-port Fast Ethernet (10/100 Mbps) Fiber Network Module** for the **Cisco 2621-XM router**. It provides **one Ethernet port** for connecting the router to a network using **fiber-optic cables**. The module supports **multimode** or **single-mode fiber** connections
* NM-1FE-TX
* NM-1FE2W
* NM-2FE2W
* NM-2W
* NM-4A/S
* NM-4E
* NM-8A/S
* NM-8AM
* NM-Cover
* WIC-1AM
* WIC-1T
* WIC-2AM
* WIC-2T
* WIC-Cover

It’s CONFIG :

* GLOBAL :

1. Settings
2. Algorithm settings

* ROUTING :

1. Static
2. RIP

* INTERFACE :

1. FastEthernet0/0
2. FastEthernet0/1

* 32k bytes of non-volatile config memory
* 63488K bytes of ATA CompactFlash

ATTRIBUTES:

1. MTBF - 3000000

2. COST - 150

3. POWER SOURCE - 0

4. RACK UNITS – 1

5. WATTAGE – 70

# 2811-Router

It contains physical modules like :

* NM-1E : The **NM-1E** is a **1-port Ethernet module** that provides a **Fast Ethernet (10/100 Mbps)** port for the **Cisco 2811 router**. It is designed to connect the router to a **local area network (LAN)** or other Ethernet-enabled devices.
* NM-1E2W : The **NM-1E2W** is a **1-port Ethernet + 2-port WAN module** for the **Cisco 2811 router**. It provides **1 Fast Ethernet (10/100 Mbps)** port for connecting to a **LAN** and **2 WAN interface ports** for connecting to a **Wide Area Network (WAN)** using technologies like **Serial**, **ISDN**, or other WAN protocols.
* NM-1FE-FX : The **NM-1FE-FX** is a **1-port Fast Ethernet (10/100 Mbps) Fiber module** for the **Cisco 2811 router**. It adds a **fiber-optic Ethernet port** for high-speed connectivity over **fiber** links, which is especially useful for long-distance or high-bandwidth applications.
* NM-1FE-TX
* NM-1FE2W
* NM-2FE2W
* NM-2W
* NM-4A/S
* NM-4E
* NM-8A/S
* NM-8AM
* NM-Cover
* NM-ESW-161
* HWIC-1GE-SFP
* HWIC-2T
* HWIC-4ESW
* HWIC-81
* HWIC-AP-AG-B
* WIC-1AM
* WIC-1ENET
* WIC-IT
* WIC-2AM
* WIC-2T
* WIC-Cover
* GLC-LH-SMD

CONFIG :

* GLOBAL :

1. Settings
2. Algorithm settings

* ROUTING :

1. Static
2. RIP

* SWITCHING :

1. VLAN database

* INTERFACE :

1.FastEthernet0/0

2. FastEthernet0/1

ATTRIBUTES:

1. MTBF - 4000000

2. COST - 1000

3. POWER SOURCE - 0

4. RACK UNITS – 1

5. WATTAGE – 40