

MRX-G4064/MRX-Q4064 Series Quick Installation Guide

Version 1.1, August 2026

Technical Support Contact Information
www.moxa.com/support



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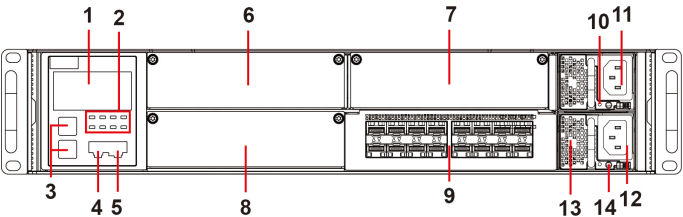
Package Checklist

The Moxa MRX-G4064/MRX-Q4064 industrial rackmount switch is shipped with the following items. If any of these items are missing or damaged, please contact your customer service representative for assistance.

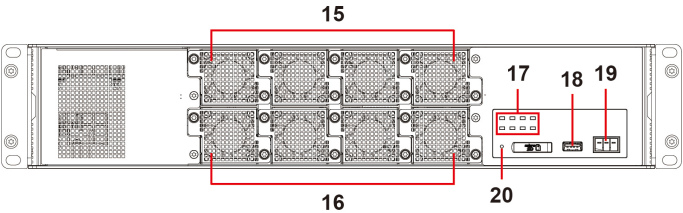
- 1 x MRX-G4064/MRX-Q4064 switch
- 2 x Rack-mounting ears
- 2 x PWR-300-HVA-IF
- 2 x Plastic IP30 dust cover for PWR power modules
- 8 x XM-4000-FAN-R (pre-installed)
- 8 x Tamper-evident stickers
- 1 x Quick installation guide (printed)
- 1 x Warranty card

Panel Layouts

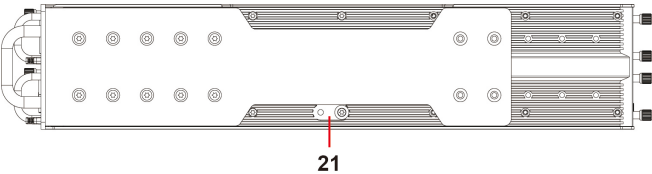
Front View



Rear View



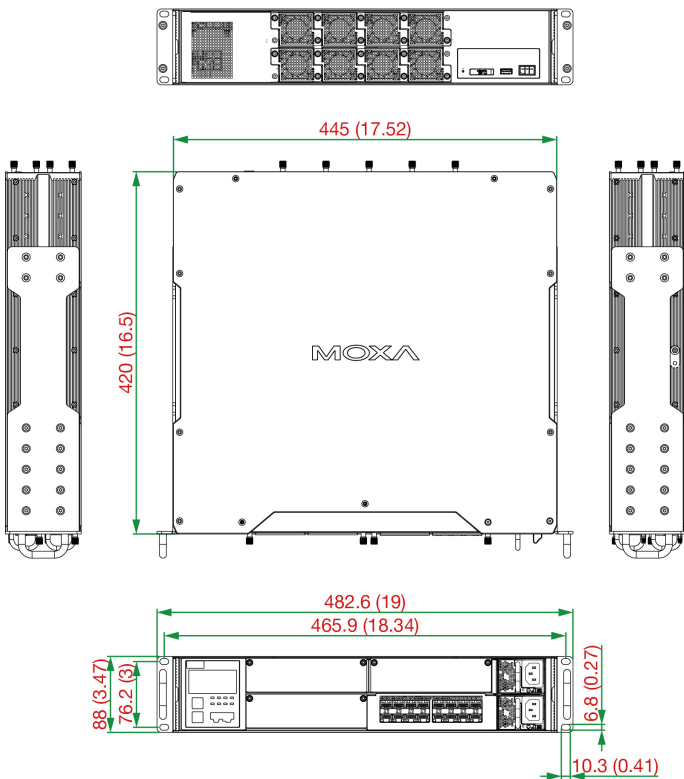
Side View



- | | |
|---------------------------------------|---------------------------------------|
| 1. LCM interface | 12. Power input 1 for 110/220 VDC/VAC |
| 2. System status LEDs | 13. Dust cover |
| 3. LCM button | 14. Power cord retainer aperture |
| 4. Console port (RS-232, RJ45) | 15. Upper Fan modules |
| 5. MGMT port (OOBM) | 16. Lower Fan modules |
| 6. Module 3 socket | 17. Fan status LEDs |
| 7. Module 4 socket | 18. USB host (type A) |
| 8. Module 1 socket | 19. Relay output |
| 9. Module 2 | 20. Reset button |
| 10. Power LED | 21. Grounding screw |
| 11. Power input 2 for 110/220 VDC/VAC | |

Dimensions

Unit = mm (inch)



WARNING

The MRX devices and modules are heavy. Ensure installation is done by engineers trained in proper handling techniques and with assistance. Be vigilant to prevent the risk of falling devices causing injury.



ATTENTION

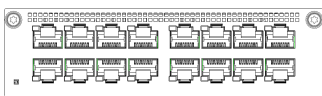
To prolong LCM lifespan, enable Energy Saving mode, or disable LCM when not in use. Refer to the user manual.

XM-4000 Ethernet Interface Modules

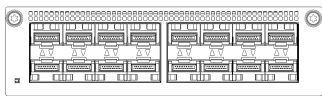
XM-4000-16GTX



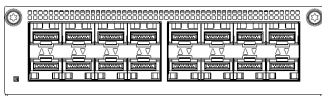
XM-4000-16QGTx



XM-4000-16GSFP



XM-4000-16QGSFP



NOTE MRX-G4064 series doesn't support 2.5GbE modules.



WARNING

When end users are using Optical SFP Communications modules, these must be limited to Laser Class 1.



WARNING

Use of the controls or adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

CLASS 1 LASER PRODUCT

Grounding the Moxa Industrial Rackmount Switch

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting devices.

NOTE Using a shielded cable achieves better electromagnetic compatibility.

Wiring Requirements

When wiring the grounding screw, we suggest using AWG (American Wire Gauge) 16 (1.31 mm²) green-and-yellow wire, along with the corresponding pin type cable terminals. The rated temperature of wiring should be at least 105°C.

Before completing installation, make sure the ground wire is connected.



WARNING

Do not disconnect modules or wires unless power has been switched off or the area is known to be non-hazardous. The device may only be connected to the supply voltage shown on the type plate. The device is designed for operation with an isolated power supply, which means that they may only be connected to the supply voltage connections and to the signal contact with an isolated power supply in compliance with IEC 62368-1/EN 62368-1/UL 62368-1 or UL 61010.



WARNING

Any adjustment, maintenance, and repair of the product should be carried out only by skilled persons.

NOTE Since the MRX is modular, observe the following installation order of the device and components:

1. Install the empty modular switch on the mounting rack.
2. Install Ethernet Interface Modules.
3. Finally, install power interface modules.

To remove the device, follow the same procedure in reverse.

Installing and Removing Ethernet Modules

Ethernet modules are hot-swappable provided they are the same module type. You have the option to mount or remove the Ethernet module while the device is operating.

NOTE When performing a cold start, you cannot remove and insert a module before booting up as it will cause the module to initially fail.

NOTE If it is the first time you are mounting a Ethernet, or SFP module, please reboot the switch after inserting it. The hot-swappable function, as defined above, will only work after the device is rebooted for the first time.

NOTE If a different model type module is changed on the same slot, it is recommended to reconfigure the settings or reset the device to default settings after rebooting the switch.

To install an Ethernet module:

1. Loosen the 2 cover plate screws, and then remove the cover plate.
2. Align the Ethernet module with the slot so it is straight, then insert.
3. Secure the module by tightening the 2 screws. The tightening torque is 3.5 kgf-cm (0.35 Nm).

To remove an Ethernet module:

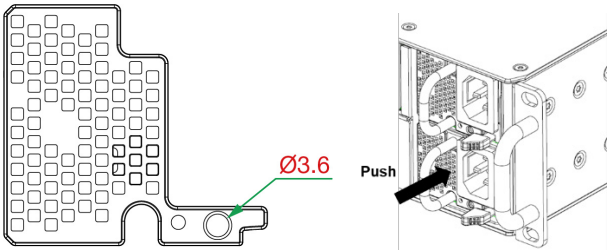
1. Loosen the 2 screws of the module.
2. Pull the module out of the slot.
3. Secure the cover plate over the slot to improve protection against dust and EMI.
4. Fasten the cover plate using 2 screws. The tightening torque is 4 kgf-cm (0.4 Nm).

Installing and Removing Power Modules

The power supply modules are hot-swappable when both power modules are installed. You have the option to mount or remove the power supply units while the device is operating.

To install a power module:

1. Carefully remove the cover plate.
2. Insert the power supply module straight into the slot and ensure its fully installed.
3. (optional) Insert the dust cover to satisfy IP30
4. (optional) Install a power cord retainer (dust cover aperture Ø3.6 mm; power module aperture Ø4.5 mm)



To remove a power module:

1. Release the latch to the left at lower right corner of power module.
2. Hold the handle and gently pull it out.
3. Secure the cover plate into the slot for better protection against dust and EMI.
4. Align and push the cover plate into place.

NOTE The PWR-300 power modules use IEC 60320 C15 cables (not included). Observe all electrical regulations in your region and use corresponding equipment.

NOTE For MRX devices supplied with two power modules, both power units activate simultaneously to allow power redundancy.

NOTE When closing the cabinet door, leave at least 10 cm for the bending radius of the power cord and Ethernet cable.



Caution

Shock hazard! Disconnect all power cords from unit before changing modules.

Installing and Replacing Fan Modules

The fan modules are hot-swappable. You have the option to install or replace the fan modules while the device is operating.

NOTE Do not delay replacing fan modules after removal, otherwise the device may overheat.

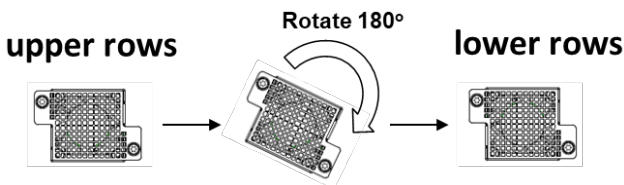


Caution

The fan may continue to spin for several seconds after removal. Do not touch or obstruct rotating fan blades.

To install a fan module:

1. Align the fan module with the slot so it is straight, then insert.
2. The upper and lower rows of modules are inverted. When installing modules in the lower rows, rotate 180 degrees before insertion.



3. Fasten the module to the device by tightening the 2 screws. The tightening torque is 3.5 kgf-cm (0.35 Nm).

To remove a fan module:

1. Loosen the 2 screws securing the module.
2. Pull the module out of the slot.
3. Lock the cover plate into the slot to improve protection against dust and EMI.
4. Fasten the cover plate using 2 screws. The tightening torque is 4 kgf-cm (0.4 Nm).



ATTENTION

The MRX-G4064/MRX-Q4064 series provides 6+2 modular redundancy in the fan system. To ensure redundancy, make sure all 8 fan units are properly installed. All sockets must be filled for operation.

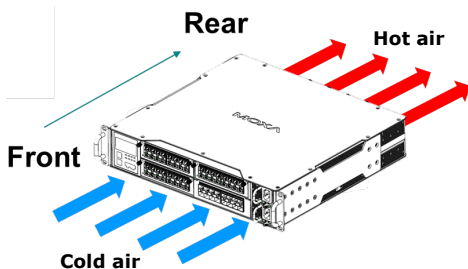


ATTENTION

Fan modules require periodic maintenance (minimum yearly) to maintain the longevity of MRX devices.

Cooling System

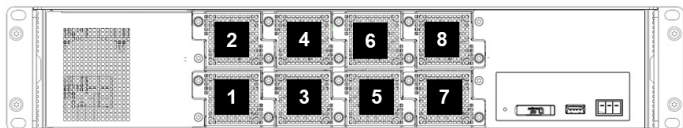
XM-4000-FAN-R and PWR-300-HVA-IF provide ventilation to prevent the device overheating. The airflow is from front to rear.



The MRX-G4064/MRX-Q4064 series supports fan modules with 6+2 redundancy level (active-active type).

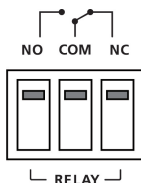
The fan module experiences wear during operation. Failure of three or more fan modules may cause the device overheating and decrease the lifetime of the device. Temperature and fan status is available through the device monitoring functions.

8 fan modules should be arranged as follows:



Wiring the Relay Contact

The MRX device relay provides two output types. Refer to the table below for detailed information. The relay contacts present user-configured events. Two wires are attached to the relay pins with normally close and normally open options.



FAULT: The relay contacts of the 3-pin terminal block connector are used to present user-configured events. The device provides normally open and normally closed circuits depending on what the user chooses. For pin definitions, refer to the table below.

Relay Connection	Power Off	Boot up Ready	Event Trigger
NO and COM	Open Circuit	Closed Circuit	Open Circuit
NC and COM	Closed Circuit	Open Circuit	Closed Circuit



WARNING

When wiring the relay contacts, we suggest using the cable type - AWG (American Wire Gauge) 16-21 (1.31-0.42 mm²) and the corresponding pin terminals. Wiring should be copper and rated for at least 105°C.

USB Connection

Use Moxa's USB Automatic Backup Configurator ABC-02-USB to connect to the USB host port to backup and restore configuration files, auto-load configuration files, upgrade firmware, and backup system log files.

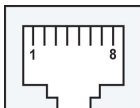


Type A

Console Port Connection

The MRX device has one RJ45 console port (RS-232), located on the front panel. Use an RJ45-based cable to connect the MRX's console port to your PC's COM port. You may then use a console terminal program, such as Moxa PComm Terminal Emulator, to access the MRX device that has a baud rate of 115200. Refer to the following table figure for the pin definition.

Pin	Description
1	–
2	DSR
3	–
4	TxD
5	RxD
6	GND
7	–
8	–



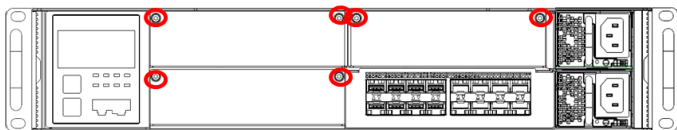
The Reset Button

Depress the Reset button for five continuous seconds to load the factory default settings. Use a pointed object, such as a straightened paper clip or toothpick, to depress the Reset button. When you do so, the STATE LED will start to blink about once per second. Continue to depress the STATE LED until it begins blinking more rapidly; this indicates that the button has been depressed for five seconds and you can release the Reset button to load factory default settings.

NOTE Do NOT power off the switch when loading default settings.

Applying Tamper-Evident Stickers

Moxa includes eight round, tamper-evident stickers in the package. These stickers can be placed on the module screws. If the stickers are broken, users will know the modules have been accessed by unauthorized persons. The figure below highlights the locations of the screws.



Follow these steps to install the stickers.

1. Use a cloth to clean the surface of the screws with a 75% alcohol solution.
2. Carefully align the stickers. Use of tweezers is recommended.
3. Press the stickers down firmly (15 PSI) for at least 15 seconds.
4. Keep the device at room temperature for 24 hours before deploying the devices in harsh environments.

- NOTE**
1. Place the stickers carefully as they are thin and fragile.
 2. The ideal environment for the stickers to be stored in is 22°C (72°F) and 50% relative humidity.
 3. Keep the extra two stickers in a safe place so that unauthorized persons cannot access them.

LED Indicators

The front/rear panels of the MRX-G4064/MRX-Q4064 series are equipped with a variety of LED indicators. The function of each LED is described in the table below.

LED	Color	State	Description
System LEDs			
P2 (PWR2)	Amber	On	Power is being supplied via power supply module 2
		Off	Power is not being supplied via power supply module 2
P1 (PWR1)	Amber	On	Power is being supplied via power supply module 1
		Off	Power is not being supplied via power supply module 1
S (STATE)	Green	On	Normal operation.
		Blinking (1Hz)	1. System service initialization 2. Holding the reset button for 5 seconds to reset factory default
		Blinking (4Hz)	1. Factory reset after holding reset button for 5 seconds. 2. External storage connected.
	Red	On	The system failed to initialize.
F (FAULT)	Red	On	1. Network loop detected with loop protection enabled. 2. Relay contact triggered 3. External storage loading/saving failed. 4. Port disabled, shutdown mode ingress rate limit exceeded. 5. Invalid ring port connection 6. Incorrect multiple network coupling connected.

LED	Color	State	Description
		Blinking	Switch boot-up and firmware loading in progress.
		Off	System booted up successfully and no events triggered.
		On	1. Turbo Ring 1 or Turbo Ring Master 2. Turbo Chain head 3. MRP Ring manager 4. PRL owner of ERPS in a major ring domain and in idle state
M/H (MSTR/ HEAD)	Green	Blinking (4Hz)	1. Turbo Ring 1 or Turbo Ring 2 Master and at least one ring is broken. 2. Turbo Ring Member and all corresponding ring ports are down. 3. Turbo Chain Head and chain is broken. 4. MRP Ring Manager and ring is open. 5. Turbo Chain Member and corresponding Member Port 1 is down. 6. Turbo Chain Tail and the link of the corresponding Member Port is down. 7. The switch in a ERPS major ring domain is not in idle state
		Off	1. Not Master of Turbo Ring 1 or Turbo Ring 2. 2. Not Head of Turbo Chain. 3. Not Manager of MRP Ring. 4. Not Master of Turbo Ring or RPL owner of ERPS major ring.
		On	1. Ring coupling or dual homing enabled. 2. Turbo Chain Tail. 3. PRL owner of ERPS in a subring domain.
C/T (CPLR/ TAIL)	Green	Blinking (4Hz)	1. Turbo Chain Tail, Chain broken. 2. Turbo Chain Head, corresponding 3. Member Port down. 4. Turbo Chain Member, corresponding Member Port 2 down. 5. Switch in a ERPS subring domain not in idle state.
		Off	1. Coupling disabled or switch not Turbo Chain Tail. 2. Dual Homing disabled or Dual Homing session not configured. 3. Switch not RPL owner of ERPS subring
		On	The PTP function is enabled.
Sync	Amber	On	The PTP function is enabled.

LED	Color	State	Description
		Blinking (2Hz)	Receiving sync packets, convergence in progress.
	Green	On	The PTP function has successfully converged.
System LED (Except PWR)	Green/ Red/ Amber	Sequential (2 Hz)	Importing/exporting a file via external storage. Applies to the following LEDs: FLT, M/H, C/T, SYNC. Each LED illuminates with default color.
		Blinking (2Hz)	Discovery/location in progress by the locator function. Applies to the following LEDs: S, FLT, M/H, C/T, SYNC. Each LED illuminates with default color.
FAN	Green	On	FAN system is working normally
	Red	On	FAN system is out of service
		Blinking (1Hz)	Failures of one or two fan modules, operational but no 6+2 redundancy
Fan Status (F1 – F8)	Green	On	The corresponding fan module is working normally.
	Red	On	The corresponding fan module is not installed or out of service.
Copper (1G) on MGMT port	Green	On	Port active and linking at 1 Gbps.
		Blinking	Data transmitting at 1 Gbps.
		Off	Port inactive or link down.
SFP (1G)	Green	On	Port active and linking at 1 Gbps.
		Blinking	Data transmitting at 1 Gbps.
		Off	Port inactive or link down
SFP+ (1G/ 2.5G/ 10G)	Green	On	Port active and linking at 10 Gbps.
		Blinking	Data transmitting at 10 Gbps.
		Off	Port inactive or link down
	Amber	On	Port active and linking at less than 10 Gbps.
		Blinking	Data transmitting at less than 10 Gbps.
		Off	Port inactive or link down.

LEDs for XM-4000 Modules

XM-4000-16GTX

LED	Color	State	Description
MS (Module State)	Green	On	Normal operation.
		Blinking	Module booting up.
		Off	Module is out of service
Copper (1G)	Green	On	Module has initially failed (PHY init failed/ EEPROM read failed)
		On	Port active and linking at 1 Gbps.
		Blinking	Activity at 1Gbps
		Off	Port inactive or link down

XM-4000-16QGTx

LED	Color	State	Description
MS (Module State)	Green	On	Normal operation.
		Blinking	Module booting up.
		Off	Module out of service
	Red	On	1. Module failed to initialize. 2. A module designed for a different model was inserted. 3. On cold start, module removed and reinserted before initialization completed.
Copper (1Gbps/ 2.5Gbps)	Green	On	Port active and linking at 2.5 Gbps.
		Blinking	Data transmitting at 2.5 Gbps.
		Off	Port inactive or link down
	Amber	On	Port active and linking at 1 Gbps.
		Blinking	Data transmitting at 1 Gbps.
		Off	Port inactive or link down.

XM-4000-16GSFP

LED	Color	State	Description
MS (Module State)	Green	On	Normal operation
		Blinking	Module booting up.
		Off	Module out of service
	Red	On	Module has initially failed (PHY init failed/EEPROM read failed)
SFP (1Gbps)	Green	ON	Port is active with 1Gbps Link
		Blinking	Activity at 1Gbps
		OFF	Port is inactive or link down

XM-4000-16QGSFP

LED	Color	State	Description
MS (Module State)	Green	On	Normal operation
		Blinking	Module booting up.
		Off	Module out of service
	Red	On	1. Module failed to initialize. 2. A module designed for a different model was inserted. 3. On cold start, module removed and reinserted before initialization completed.
SFP (1Gbps/ 2.5Gbps)	Green	ON	Port active and linking at 2.5 Gbps.
		Blinking	Data transmitting at 2.5 Gbps.
		OFF	Port inactive or link down
	Amber	On	Port active and linking at 1 Gbps.
		Blinking	Data transmitting at 1 Gbps.
		Off	Port inactive or link down

Specifications

Ethernet Interface		
Pre-installed Modules		MRX-G4064-L3-8XG: 8 embedded 1GbE SFP slots and 8 embedded 10GbE SFP+ slots MRX-Q4064-L3-16XG: 16 embedded 10GbE SFP+ slots

Module	3 slots for optional Gigabit or 2.5GbE Ethernet ports or SFP 16-port modules
Standards	IEEE 802.3ae for 10 Gigabit Ethernet IEEE 802.3bz for 2.5GBaseX IEEE802.3ab for 1000BaseT(X) IEEE802.3z for1000BaseX IEEE802.3x for flow control IEEE802.3ad for Port Trunk with LACP IEEE 802.3az for Energy Efficient Ethernet IEEE802.1Q for VLAN Tagging IEEE802.1D-2004 for Spanning Tree Protocol IEEE802.1s for Multiple Spanning Tree Protocol IEEE802.1w for Rapid Spanning Tree Protocol IEEE802.1p for Class of Service IEEE802.1X for authentication ITU-T G.8032 Ethernet Ring Protection Switching
Power Parameters	
Input Voltage	230-240 VDC; 100-240 VAC, 50-60 Hz (using PWR-300-HVA-IF)
Operating Voltage	180-300 VDC; 90-264 VAC, 47-63 Hz (using PWR-300-HVA-IF)
Overload Current Protection	Supported
Reverse Polarity Protection	Supported
Input Current	MRX-G4064-L3-8XGS: Max. 1.236 A @ 110 VAC Max. 0.675 A @ 220 VAC Max. 0.74 A @ 180 VDC Max. 0.439 A @ 300 VDC MRX-Q4064-L3-16XGS: Max. 2.703 A @ 110 VAC Max. 1.339 A @ 220 VAC Max. 1.615 A @ 180 VDC Max. 0.948 A @ 300 VDC
Power Consumption (Max.) (Full modules installed)	MRX-G4064-L3-8XGS: Max. 134.2 W @ 110 VAC Max. 132.3 W @ 220 VAC Max. 133.2 W @ 180 VDC Max. 131.8 W @ 300 VDC MRX-Q4064-L3-16XGS: Max. 297 W @ 110 VAC Max. 287.3 W @ 220 VAC Max. 290.3 W @ 180 VDC Max. 284.3 W @ 300 VDC
Physical Characteristics	
IP Rating	IP30
Dimensions	440 x 88 x 420 mm
Weight	MRX-G4064/ Q4064: 12 kg (26 lb) XM-4000-16GTX/ 16QGTX: 0.7 kg (1.4 lb) XM-4000-16GSFP/ 16QGSFP: 0.5 kg (1.2 lb) XM-4000-FAN models: 0.1 kg (0.2 lb)

	PWR-300 models: 0.7 kg (1.6 lb)
Installation	Rack mounting
Fan module slot	8 (supports MX-4000-FAN)
Environmental Limits	
Operating Temperature	Standard Temperature: -10 to 60°C (14 to 140°F)
Storage Temperature (package included)	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
Standards and Certifications	
Safety	UL 61010-2-201, IEC/UL 62368-1
EMC	EN 55032/35, EN 61000-6-2/-6-4
EMI	CISPR 32, FCC Part 15B Class A
EMS	IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80 MHz to 1 GHz: 20 V/m IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10 V IEC 61000-4-8 PFMF IEC 61000-4-11 Voltage Dips & Interruptions
Railway	EN 50121-4
NOTE: For improved conductive radiation immunity, use an STP cable.	
Freefall	ISTA 1A
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6
Warranty	
Warranty Period	5 years
Details	See www.moxa.com/warranty

Supported SFP Modules

Module	Description
SFP-1G10ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature.
SFP-1G10BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature.
SFP-1G20ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature.
SFP-1G20BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature.
SFP-1G40ALC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, 0 to 60°C operating temperature.

Module	Description
SFP-1G40BLC	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, 0 to 60°C operating temperature.
SFP-1G10ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature.
SFP-1G10BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 10 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature.
SFP-1G20ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature.
SFP-1G20BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 20 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature.
SFP-1G40ALC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1310 nm, RX 1550 nm, -40 to 85°C operating temperature.
SFP-1G40BLC-T	WDM-type (BiDi) SFP module with 1 1000BaseSFP port with LC connector for 40 km transmission; TX 1550 nm, RX 1310 nm, -40 to 85°C operating temperature.
SFP-1GEZXLC	SFP module with 1 1000BaseEZXC port with LC connector for 110 km transmission, 0 to 60°C operating temperature.
SFP-1GEZXLC-120	SFP module with 1 1000BaseEZXC port with LC connector for 120 km transmission, 0 to 60°C operating temperature.
SFP-1GLHLC	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, 0 to 60°C operating temperature.
SFP-1GLHXL	SFP module with 1 1000BaseLH port with LC connector for 40 km transmission, 0 to 60°C operating temperature.
SFP-1GLSXL	SFP module with 1 1000BaseLSX port with LC connector for 1km/2km transmission, 0 to 60°C operating temperature.
SFP-1GLXL	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, 0 to 60°C operating temperature.
SFP-1GSXL	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, 0 to 60°C operating temperature.
SFP-1GZXLC	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, 0 to 60°C operating temperature.

Module	Description
SFP-1GLHLC-T	SFP module with 1 1000BaseLH port with LC connector for 30 km transmission, -40 to 85°C operating temperature.
SFP-1GLHXL-T	SFP module with 1 1000BaseLHX port with LC connector for 40 km transmission, -40 to 85°C operating temperature.
SFP-1GLSXL-T	SFP module with 1 1000BaseSX port with LC connector for 1km/2km transmission, -40 to 85°C operating temperature.
SFP-1GLXL-T	SFP module with 1 1000BaseLX port with LC connector for 10 km transmission, -40 to 85°C operating temperature.
SFP-1GSXL-T	SFP module with 1 1000BaseSX port with LC connector for 300m/550m transmission, -40 to 85°C operating temperature.
SFP-1GZXL-T	SFP module with 1 1000BaseZX port with LC connector for 80 km transmission, -40 to 85°C operating temperature.
SFP-1GTXRJ45-T	SFP module with 1 1000BaseT port with RJ45 connector for 100 m transmission, -40 to 75°C operating temperature.
SFP-10GERLC-T	SFP+ module with 1 10GBase-ER port, LC connector for 40 km transmission, -40 to 85°C operating temperature.
SFP-10GLRLC-T	SFP+ module with 1 10GBase-LR port, LC connector for 10 km transmission, -40 to 85°C operating temperature.
SFP-10GSRLC-T	SFP+ module with 1 10GBase-SR port, LC connector for 33m/82m/300m/400m transmission, -40 to 85°C operating temper.
SFP-10GZRLC-T	SFP+ module with 1 10GBase-ZR port, LC connector for 80 km transmission, -40 to 85°C operating temperature.
SFP-2.5GLSLC-T	SFP module with 1 2.5GBaseFX port with LC connector, single-mode, for 20 km transmission, -40 to 85 °C operating temperature.
SFP-2.5GSLHLC-T	SFP module with 1 2.5GBaseFX port with LC connector, single-mode, for 45 km transmission, -40 to 85 °C operating temperature.
SFP-2.5GMLC-T	SFP module with 1 2.5GBaseFX port with LC connector, multi-mode, for 170, 200, 550, 600 m transmission, -40 to 85 °C operating temperature
SFP-2.5GSLC-T	SFP module with 1 2.5GBaseFX port with LC connector, single-mode, for 5 km transmission, -40 to 85°C operating temperature.

Rack Mounting Instructions

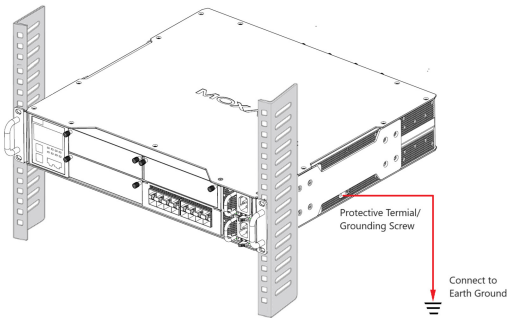
- 1. Ambient Operating Temperature:** If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tam) specified by the manufacturer.

NOTE In order to ensure reliable operations, please make sure the operating temp. of the environment does not exceed the spec. When mounting an MRX-G4064/MRX-Q4064 rack-mounted switch with other operating units in a cabinet without forced ventilation, it is recommended that 2U of space is reserved between each rack-mounted switch and/or device.

- 2. Sufficient Air Flow:** Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised. Make sure that the front and back of the device (cold air intake, hot air exhaust) allow unobstructed airflow.
- 3. Mechanical Loading:** Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

NOTE Due to device size and weight, for your safety during mounting, we suggest that two people to lift it together and hold it steady to install the screws and modules.

- 4. Circuit Loading:** Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- 5. Reliable Grounding:** Reliable grounding of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips). Make sure the grounding screw of the device has been connected by a 16 AWG (min.) green-and-yellow wire to the rack, and the protective terminal of the rack has connected to the earth ground. Additionally, power cords should be connected to grounded power outlets.



- 6. Power Source:** Equipment with DC power inputs is intended to be supplied by DC power, separated from AC mains by double or reinforced insulation.



ATTENTION

When installing the device onto a rack, make sure that the input terminal block and protective terminal do not connect, or it may cause an electric shock.

NOTE The rackmount ears can only be equipped on the front of Moxa MRX-G4064/MRX-Q4064 switch.

NOTE For IP30 compliance:
All module slots must be either occupied or covered. A cover plate must be used to cover the module slot without a module installed.
The plastic IP30 dust cover must be used on power modules. Additionally, a power cord retainer must be installed to cover the aperture.
A 3-pin terminal block must be used on the Relay port.

Restricted Access Locations

- This equipment is intended to be used in Restricted Access Locations, such as a computer room, with access limited to SERVICE PERSONNEL or USERS who have been instructed on how to handle the metal chassis of equipment that is so hot that special protection may be needed before touching it. The location should only be accessible with a key or through a security identity system.
- External metal parts of this equipment are extremely hot!! Before touching the equipment, you must take special precautions to protect your hands and body from serious injury.



Patent

https://www.moxa.com/doc/operations/Moxa_Patent_Marking.pdf



ATTENTION

1. To protect against the risk of fire, only replace the fuse with one that has the same type and rating.
2. It is recommended to incorporate a readily accessible disconnect device into the building installation wiring. Importantly, ensure the power supply is disconnected before performing any maintenance.
3. This equipment is designed to connect the earthed conductor of the D.C supply circuit to the equipment's earthing conductor.
4. It is recommended to keep the PoE network indoors when using Information Technology Equipment.

NOTE

- This device is intended for indoor use only, at altitudes of up to 5,000 meters above sea level.
- Overvoltage category II.
- Pollution degree 2.

NOTE To preserve device label integrity and legibility, wipe with a dry cloth only. Avoid liquids, detergents, or other substances to avoid label degradation.

限用物質含有情況標示聲明書

Declaration of the Presence Condition of the Restricted Substances Marking

設備名稱：工業乙太網路交換機 Equipment name				型號（型式）：MRX 系列 Type designation (Type)		
單元 Unit	限用物質及其化學符號 Restricted substances and their chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
外殼	○	○	○	○	○	○
印刷電路板及其 電子組件	—	○	○	○	○	○
電纜/電線/連 接器	—	○	○	○	○	○
機械部件- 金屬	—	○	○	○	○	○
機械部件- 非金屬	○	○	○	○	○	○
備考 1. “超出 0.1 wt %”及“超出 0.01 wt %”係指限用物質之百分比含量超出百分比含量基準 值。						
Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” show that the percentage content of the restricted substance exceeds the reference percentage value of the presence condition.						
備考 2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。						
Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of the reference value of presence.						
備考 3. “—” 係指該項限用物質為排除項目。						
Note 3: The “—” indicates that the restricted substance corresponds to the exemption.						

系列型號：
MRX-Q4064-L3-16XGS, MRX-G4064-L3-8XGS



WARNING

為避免電磁干擾，本產品不應安裝或使用於住宅環境。

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