



# MOXA EDS-510A Series EtherDevice Switch Instruction Manual

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## MOXA EDS-510A Series EtherDevice



### Package Checklist

The EDS-510A is shipped with the following items. If any of these items are missing or damaged, please contact your customer service representative for assistance.

- 1 EDS-510A EtherDevice Switch
- Quick installation guide (printed)
- Warranty card
- RJ45 to DB9 console port cable
- Protective caps for unused ports
- DIN-Rail mounting kit (attached to the EDS-510A's rear panel by default)

### Optional Accessories

- SFP-1GSXLC: Small Form factor Pluggable transceiver with 1000BaseSX, LC, 0.5km, 0 to 60°C
- SFP-1GSXLC-T: Small Form factor Pluggable transceiver with 1000BaseSX, LC, 0.5km, -40 to 85°C
- SFP-1GLXLC: Small Form-factor Pluggable transceiver with 1000BaseLX, LC, 10km, 0 to 60°C
- SFP-1GLXLC-T: Small Form-factor Pluggable transceiver with 1000BaseLX, LC, 10km, -40 to 85°C
- SFP-1GLHXL: Small Form factor Pluggable transceiver with 1000BaseLH, LC, 40 km, 0 to 60°C
- SFP-1GLHXL-T: Small Form-factor Pluggable transceiver with 1000BaseLH, LC, 40 km, -40 to 85°C
- SFP-1GZXLC: Small Form-factor Pluggable transceiver with 1000BaseZX, 80 km, LC, 0 to 60°C
- ABC-01: Automatic Backup Configurator via RS-232 Console Port, 0 to 60°C
- DR-4524: DIN-Rail Power Supply (24 VDC, 45W/2A, with 85 to 264 VAC input)
- DR-75-24: DIN-Rail Power Supply (24 VDC, 75W/3.2A, with 85 to 264 VAC input)
- DR-120-24: DIN-Rail Power Supply (24 VDC, 120W/5A, with 88 to 132 VAC/176 to 264 VAC input by switch)
- EDS-SNMP OPC Server Pro: CD with EDS-SNMP OPC Server software and user's manual

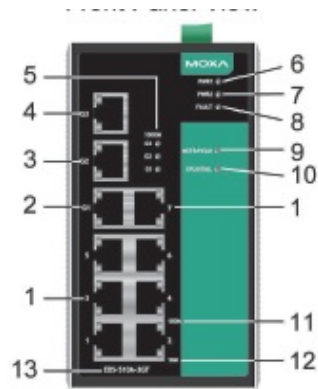
- WK-46-01: Wall Mounting Kit
- RK-4U: 4U-high 19" rack mounting kit

## Default Settings

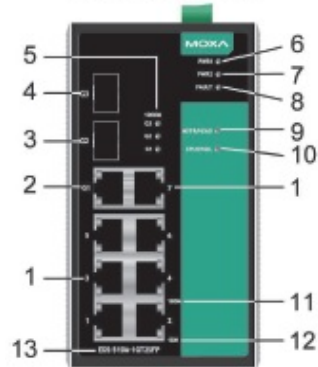
- Default IP address: 192.168.127.253
- Default Subnet Mask: 255.255.255.0
- Default Usernames: admin, user
- Default Password: (By default, no password is assigned to the Moxa switch's web, serial, and Telnet consoles.)

## Panel Views of EDS-510A

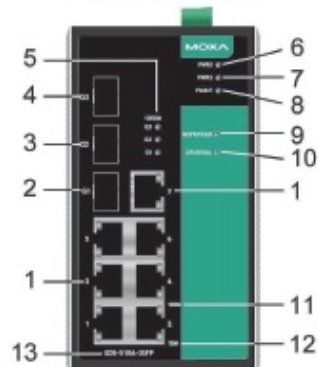
1. 1 to 7: 10/100BaseT(X) port
2. G1:-510A-3GT 10/100/1000BaseT(X) port EDS-510A-1GT2SFP 10/100/1000BaseT(X) port EDS-510A-3SFP 1000BaseSX/LX/LHX/ZX port
3. G2: 10/100/1000BaseT(X) port EDS-510A-1GT2SFP 1000BaseSX/LX/LHX/ZX port EDS-510A-3SFP 1000BaseSX/LX/LHX/ZX port
4. G3:EDS-510A-3GT 10/100/1000BaseT(X) port EDS-510A-1GT2SFP 1000BaseSX/LX/LHX/ZX port EDS-510A-3SFP 1000BaseSX/LX/LHX/ZX port
5. G1, G2, G3: LED indicators for 1000 Mbps ports
6. PWR1: LED for power input 1
7. PWR2: LED for power input 2
8. FAULT: LED indicator
9. MSTR/HEAD: LED indicator
10. CPLR/TAIL: LED indicator
11. 100M: LED indicator for TP port
12. 10M: LED indicator for TP port
13. Model Name



EDS-510A-1GT2SFP  
Front Panel View



EDS-510A-3SFP  
Front Panel View

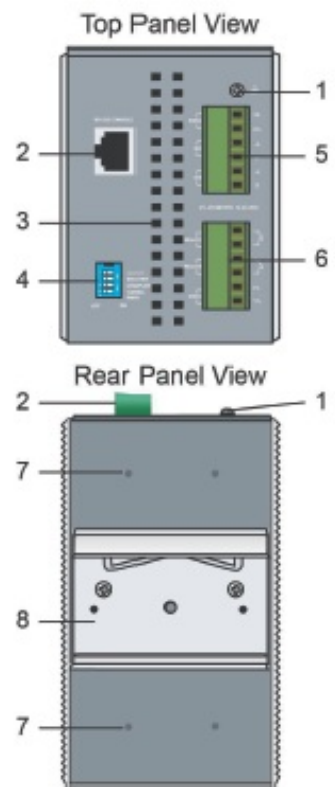


## Top Panel

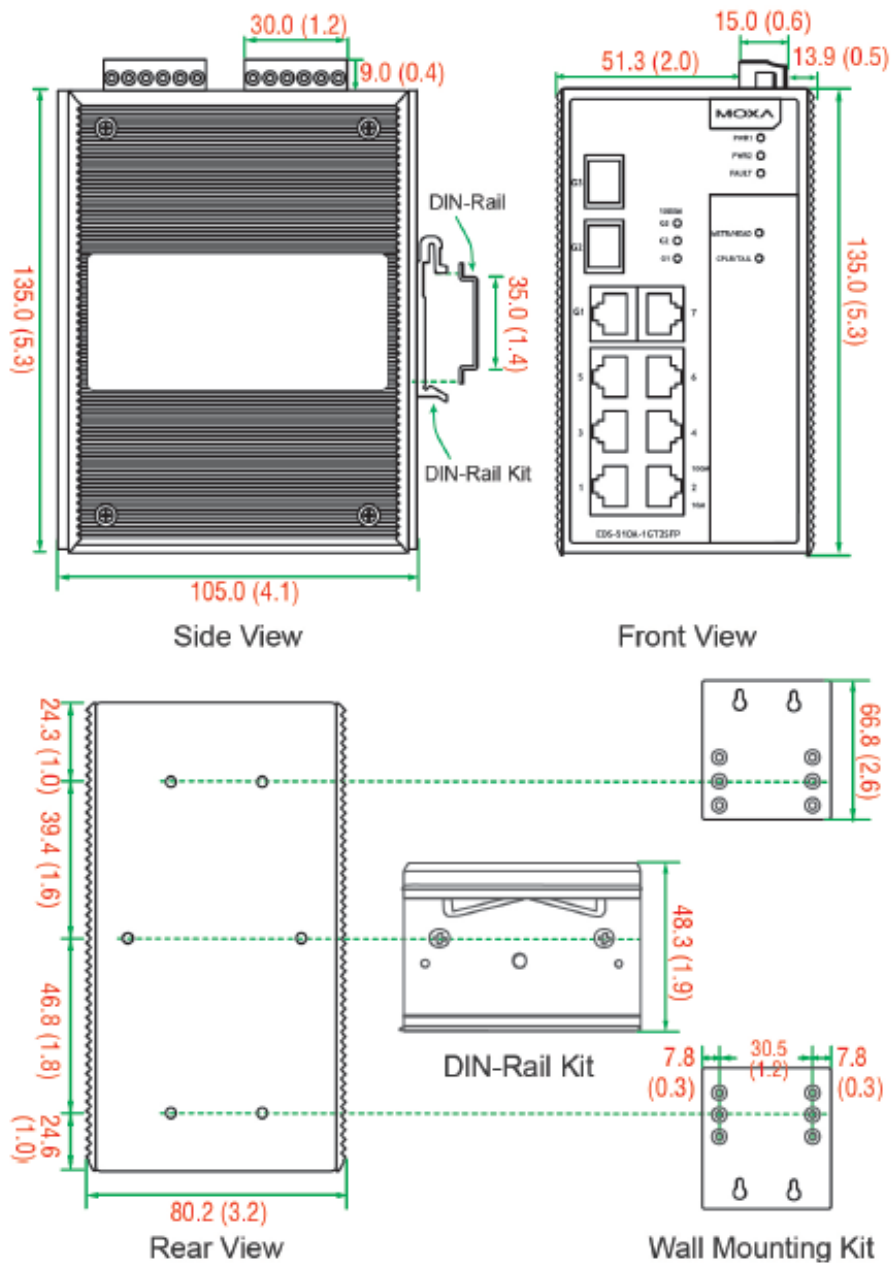
1. Ground screw
2. RS-232 console port
3. Heat dissipation orifices
4. DIP switches for Ring Master, Ring Coupler, and Turbo Ring
5. 6-pin terminal block for DI 1, DI 2, and PWR 2
6. 6-pin terminal block for PWR1, Relay 1, and Relay 2

## Rear Panel

1. Screw holes for Wall Mounting Kit
2. DIN-Rail Kit



## Mounting Dimensions

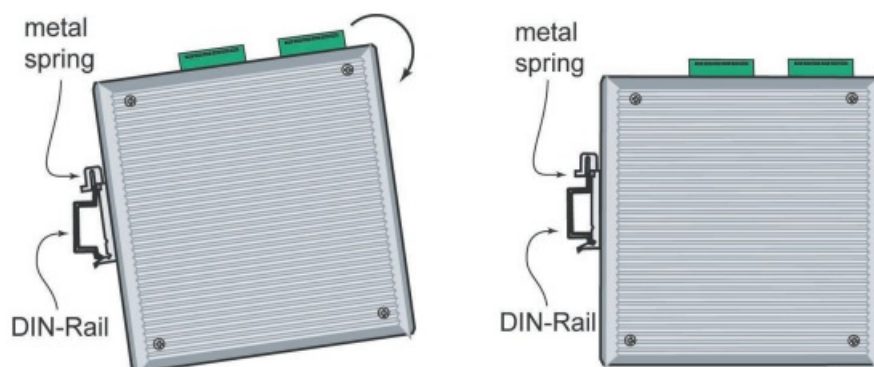


## DIN-Rail Mounting

The aluminum DIN-Rail attachment plate should already be fixed to the back panel of the EDS-510A when you take it out of the box. If you need to reattach the DIN-Rail attachment plate to the EDS-510A, make sure the stiff metal spring is situated towards the top, as shown by the following figures.

**STEP 1:** Insert the top of the DIN-Rail into the slot just below the stiff metal spring.

**STEP 2:** The DIN-Rail attachment unit will snap into place as shown in the following illustration.

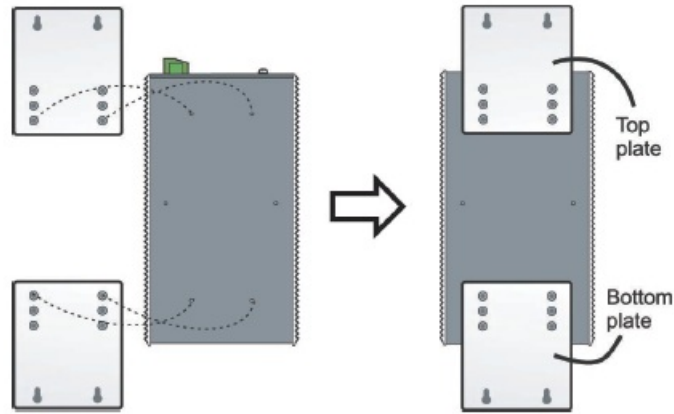


To remove the EDS-510A from the DIN-Rail, simply reverse Steps 1 and 2 above.

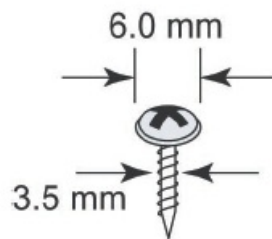
## Wall Mounting (Optional)

For some applications, you will find it convenient to mount Moxa EDS-510A on the wall, as shown in the following illustrations:

**STEP 1:** Remove the aluminum DIN-Rail attachment plate from the rear panel of the EDS-510A, and then attach the wall mount plates with M3 screws, as shown in the figure at the right.

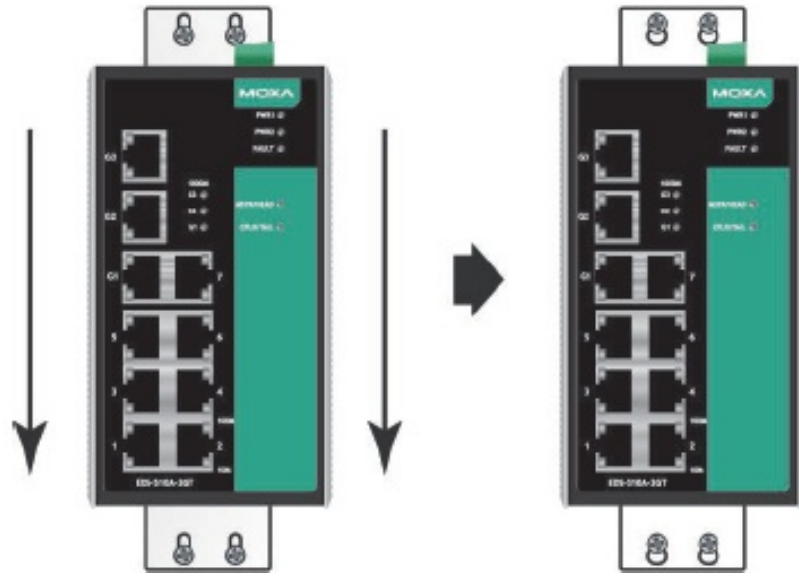


**STEP 2:** Mounting the EDS-510A on the wall requires 4 screws. Use the EDS-510A, with wall mount plates attached, as a guide to mark the correct locations of the 4 screws. The heads of the screws should be less than 6.0 mm in diameter, and the shafts should be less than 3.5 mm in diameter, as shown in the figure on at right.



**NOTE** Before tightening the screws into the wall, make sure the screw head and shank size are suitable by inserting the screw through one of the keyhole-shaped apertures of the Wall Mounting Plates. Do not screw the screws in all the way leave about 2 mm to allow room for sliding the wall mount panel between the wall and the screws.

**STEP 3:** Once the screws are fixed to the wall, insert the four screw heads through the wide parts of the keyhole-shaped apertures, and then slide the EDS-510A downwards, as indicated in the figure at the right. Tighten the four screws for more stability.



## ATEX Information

1. Certificate number DEMKO 08 ATEX 0810937x
2. Ambient range:  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq 75^{\circ}\text{C}$
3. Certification string: Ex nA nC IIC T4 Gc
4. Standards covered: EN 60079-0:2012+A11:2013, EN60079-15:2010
5. The conditions of safe usage:
  - These products must be mounted in an IP54 enclosure.
  - Install in an area of pollution degree 2 or less.
  - Use a conductor wire of size 0.2 mm<sup>2</sup> or greater.
  - PROVISIONS SHALL BE MADE, EITHER IN EXTERNAL TO THE APPARATUS, TO PREVENT THE RATED VOLTAGE FROM BEING EXCEEDED BY THE TRANSIENTS DISTURBANCES OF MORE THAN 40 %

## 6. Wiring Requirements

### WARNING

- Do not disconnect modules or wires unless power has been switched off or the area is known to be non-hazardous. The devices may only be connected to the supply voltage shown on the type plate. The devices are designed for operation with a
- Safety Extra-Low Voltage. Thus, they may only be connected to the supply voltage connections and to the signal contact with the Safety Extra-Low Voltages (SELV) in compliance with IEC950/ EN60950/ VDE0805.
- This unit is a built-in type. When the unit is installed in another piece of equipment, the equipment enclosing the unit must comply with fire enclosure regulation IEC 60950/EN60950 (or similar regulation). Safety First!
- Be sure to disconnect the power cord before installing and/or wiring your Moxa EtherDevice Switch. Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowable for each wire size. If the current goes above the maximum ratings, the wiring could overheat, causing serious damage to your equipment.



## Please read and follow these guidelines

- Use separate paths to route wiring for power and devices. If power wiring and device wiring paths must cross, make sure the wires are perpendicular at the intersection point.

**NOTE:** Do not run signal or communications wiring and power wiring through the same wire conduit. To avoid interference, wires with different signal characteristics should be routed separately

- You can use the type of signal transmitted through a wire to determine which wires should be kept separate. The rule of thumb is that wiring that shares similar electrical characteristics can be bundled together
- You should separate input wiring from output wiring
- We advise that you label the wiring to all devices in the system.

## Grounding the Moxa EDS-510A

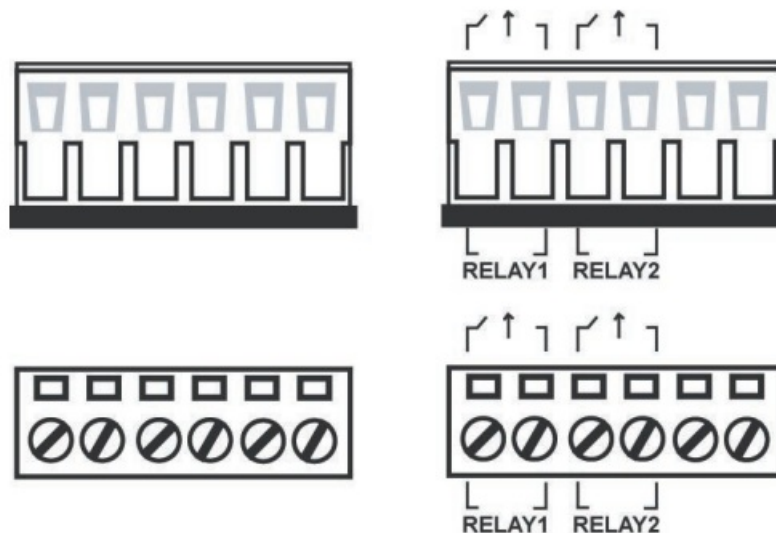
Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting devices.

## ATTENTION

This product is intended to be mounted to a well-grounded mounting surface such as a metal panel.

## Wiring the Relay Contact

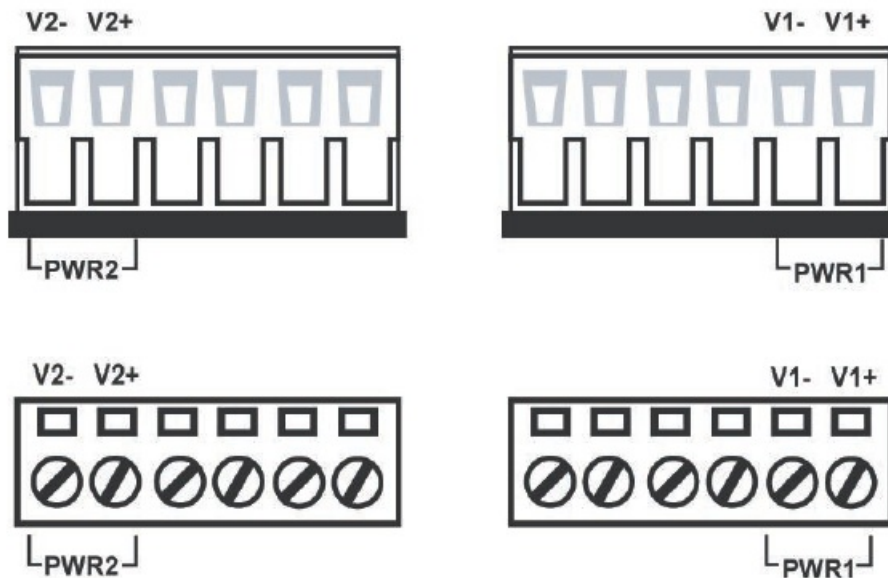
The EDS-510A has two sets of relay outputs—relay 1 and relay 2. Each relay contact uses two contacts of the terminal block on the EDS-510A's top panel. Refer to the next section for detailed instructions on how to connect the wires to the terminal block connector, and how to attach the terminal block connector to the terminal block receptor. In this section, we illustrate the meaning of the two contacts used to connect the relay contact.



**FAULT:** The two sets of relay contacts of the 6-pin terminal block connector are used to detect user-configured events. The two wires attached to the fault contacts form an open circuit when a user-configured event is triggered. If a user-configured event does not occur, the fault circuit remains closed.

## Wiring the Redundant Power Inputs

The EDS-510A has two sets of power inputs—power input 1 and power input 2. The top two contacts and the bottom two contacts of the 6-pin terminal block connector on the EDS-510A's top panel are used for the two power inputs. Input Terminal Block (JP3, JP4) is rated 300 V/15 A, is soldered on the board, can mate with a plug-half connector suitable for 28-12 AWG wire size, and has a torque value of 4.5-5.0 lb-in. The plug-half connection has a latching mechanism. The top and front views of one of the terminal block connectors are shown here.

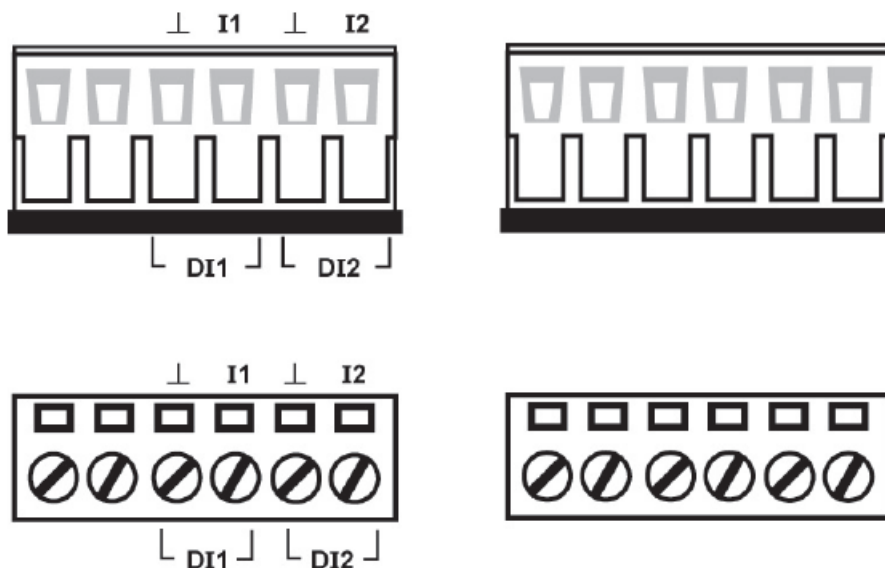


**STEP 1:** Insert the negative/positive DC wires into the V-/V+ terminals, respectively.

**STEP 2:** To keep the DC wires from pulling loose, use a small flat-blade screwdriver to tighten the wire-clamp screws on the front of the terminal block connector. **STEP 3:** Insert the plastic terminal block connector prongs into the terminal block receptor, which is located on the EDS-510A's top panel.

### Wiring the Digital Inputs

The EDS-510A has two sets of digital inputs, DI 1 and DI 2. Each DI consists of two contacts of the 6-pin terminal block connector on the EDS-510A's top panel, which are used for the two DC inputs. The top and front views of one of the terminal block connectors are shown here.



**STEP 1:** Insert the negative(ground)/positive DI wires into the —/I1 terminals, respectively. **STEP 2:** To keep the DI wires from pulling loose, use a small flat-blade screwdriver to tighten the wire-clamp screws on the front of the terminal block connector. **STEP 3:** Insert the plastic terminal block connector prongs into the terminal block receptor, which is located on the EDS-510A's top panel.

### Communication Connections

Each EDS-510A switch has 3 types of communication ports:

1. 1 RJ45 console port (RS-232 interface)

2. 7 10/100BaseTX Ethernet ports
  3. 3 gigabit Ethernet ports: 3 10/100/1000BaseTX ports, or 1 10/100/1000BaseTX and 2 1000BaseSFP (mini-GBIC) ports, or 3 1000BaseSFP (mini-GBIC) ports
- In this section, we present two types of diagrams—Pinout Diagrams and Cable Wiring Diagrams—that convey information about the ports and the cables used to connect the EDS-510A to other devices:

**Pinouts**The “Pinouts” diagrams display the type of signal passing through each of the port’s pins.

**Cable Wiring**The “Cable Wiring” diagrams present standard cable wiring schemes for cables used to connect the EDS-510A’s ports to other devices. These diagrams display three pieces of information:

1. When building your own cable, refer to the “pin-to-pin” cable wiring information displayed between the two vertical dashed lines to see which pin of the connector on the left should be connected to which pin of the connector on the right.
2. The information to the left of the left vertical dashed lines gives the pinouts of the relevant EDS-510A port.
3. The information to the right of the right vertical dashed line gives the pinouts of the opposing device’s port.

**NOTE:** The pin numbers for male DB9 connectors and hole numbers for female DB9 connectors are labeled on the connector.

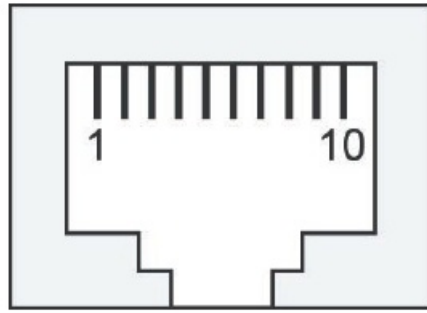
The pin numbers for 10-pin RJ45 connectors (and ports) are typically not labeled on the connector (or port). Refer to the following Pinout and Cable Wiring diagrams to see how 10-pin RJ45 pins are numbered.

#### RS-232 Connection

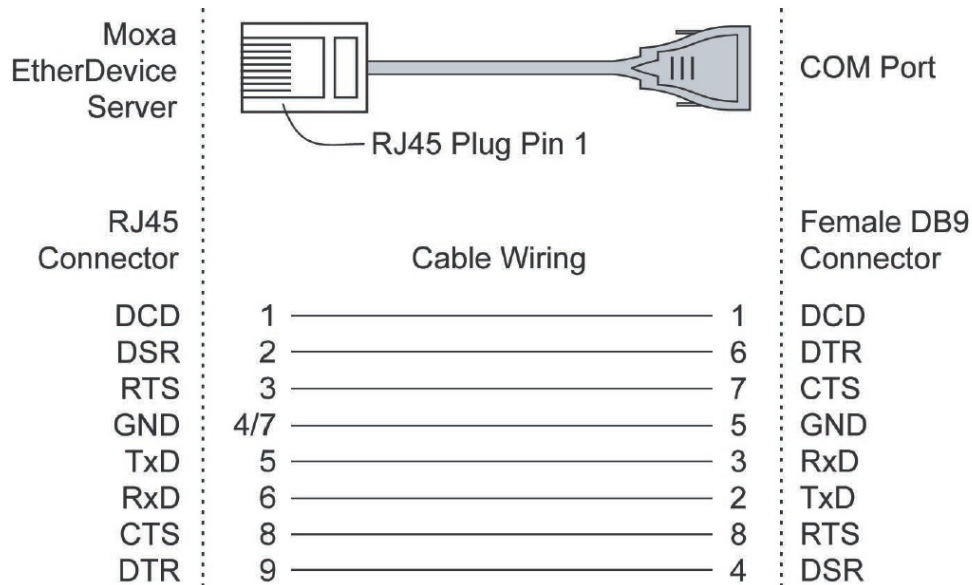
The EDS-510A has one RS-232 (10-pin RJ45) console port, located on the top panel. Use either an RJ45-to-DB9 (see the cable following wiring diagrams) to connect the EDS-510A’s console port to your PC’s COM port. You may then use a console terminal program, such as Moxa PComm Terminal Emulator, to access the EDS-510A’s console configuration utility.

#### RJ45 (10-pin) Console Port Pinouts

Pin	Description
1	–
2	DSR
3	RTS
4	–
5	TxD
6	RxD
7	GND
8	CTS
9	DTR
10	–



### RJ45 (10-pin) to DB9 (F) Cable Wiring



### 10/100BaseT(X) Ethernet Port Connection

The 10/100BaseT(X) ports located on the EDS-510A's front panel are used to connect to Ethernet-enabled devices. Most users configure these ports for Auto MDI/MDI-X mode, in which case the port's pinouts are adjusted automatically depending on the type of Ethernet cable used (straight-through or cross-over), and the type of device (NIC-type or HUB/Switch-type) connected to the port.

In what follows, we give pinouts for both MDI (NIC-type) ports and MDI-X (HUB/Switch-type) ports. We also give cable wiring diagrams for straight-through and cross-over Ethernet cables.

10/100Base T(x) RJ45 Pinouts

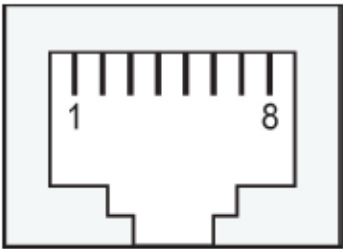
#### MDI Port Pinouts

Pin	Signal
1	Tx+
2	Tx-
3	Rx+
6	Rx-

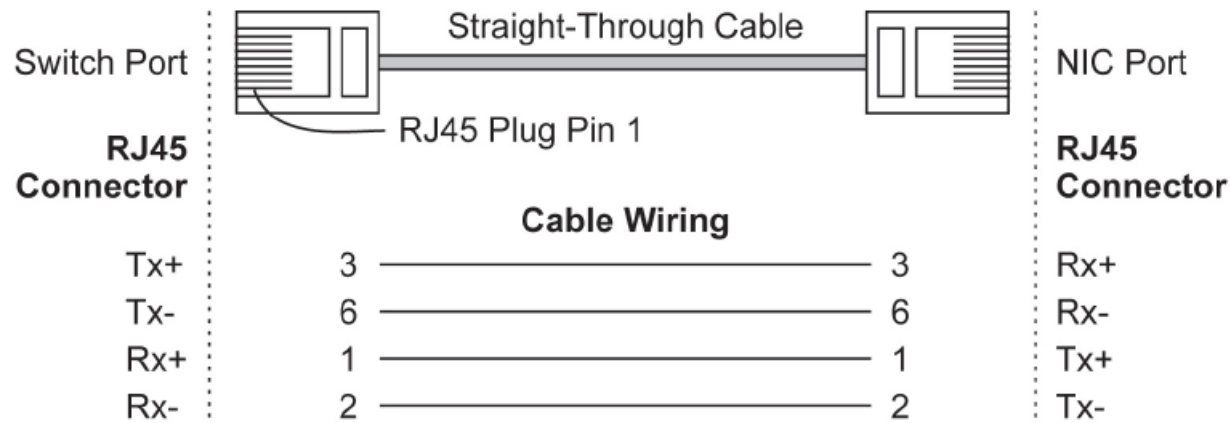
#### MDIX Port Pinouts

Pin	Signal
1	Rx+
2	Rx-
3	Tx+
6	Tx-

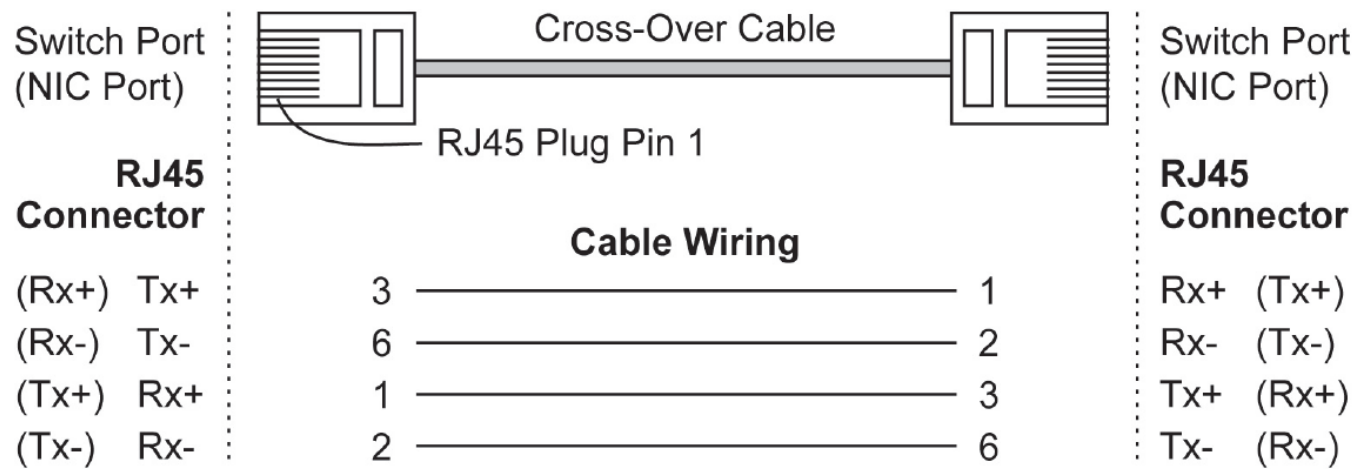
8-pin RJ45



RJ45 (8-pin) to RJ45 (8-pin) Straight-through Cable Wiring



RJ45 (8-pin) to RJ45 (8-pin) Cross-over Cable Wiring



1000BaseT Ethernet Port Connection

1000BaseT data is transmitted on differential TRD+/- signal pairs over copper wires.

MDI/MDI-X Port Pinouts

Pin	Signal
1	TRD(0)+
2	TRD(0)-
3	TRD(1)+
4	TRD(2)+
5	TRD(2)-
6	TRD(1)-
7	TRD(3)+
8	TRD(3)-

## 1000BaseSFP (mini-GBIC) Fiber Port

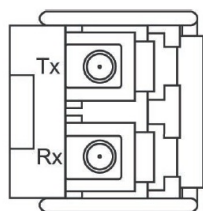
The gigabit Ethernet ports on the EDS-510A-1GT2SFP and EDS-510A-3SFP are 1000BaseSFP Fiber ports, which require using the gigabit mini-GBIC fiber transceivers to work properly. Moxa provides completed transceiver models for different distance requirement.

The concept behind the LC port and cable is quite straightforward. Suppose that you are connecting devices I and II; contrary to electrical signals, optical signals do not require a circuit in order to transmit data. Consequently, one of the optical lines is used to transmit data from device I to device II, and the other optical line is used transmit data from device II to device I, for full-duplex transmission.

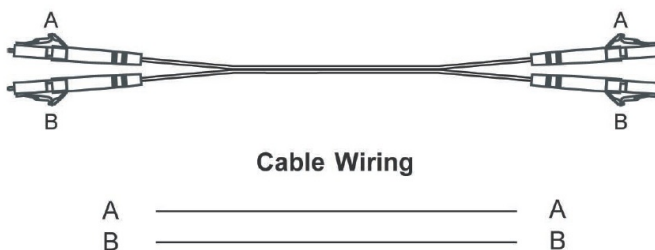
Remember to connect the Tx (transmit) port of device I to the Rx (receive) port of device II, and the Rx (receive) port of device I to the Tx (transmit) port of device II. If you make your own cable, we suggest labeling the two sides of the same line with the same letter (A-to-A and B-to-B, as shown below, or A1-to-A2 and B1-to-B2).

### LC-Port Pinouts

**LC-Port Pinouts**



**LC-Port to LC-Port Cable Wiring**



### ATTENTION

This is a Class 1 Laser/LED product. To avoid causing serious damage to your eyes, do not stare directly into the Laser Beam.

## Turbo Ring DIP Switch Settings

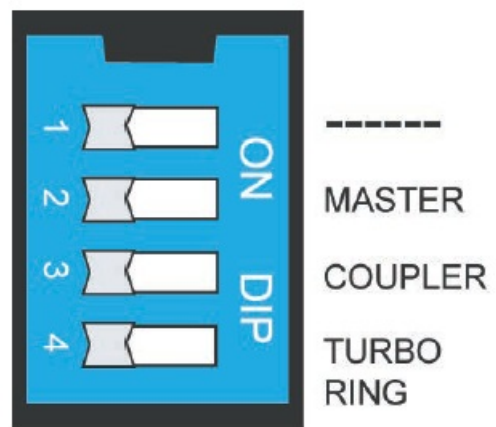
EDS-510A series are plug-and-play managed redundant Ethernet switches. The proprietary Turbo Ring protocol was developed by Moxa to provide better network reliability and faster recovery time. Moxa Turbo Ring's recovery time is less than 300 ms (Turbo Ring) or 20 ms (Turbo Ring V2) —compared to a 3- to 5-minute recovery time for commercial switches—decreasing the possible loss caused by network failures in an industrial setting.

There are 4 Hardware DIP Switches for Turbo Ring on the top panel of EDS-510A that can help set up the Turbo Ring easily within seconds. If you do not want to use a hardware DIP switch to setup the Turbo Ring, you can use a web browser, telnet, or console to disable this function.

**NOTE:** Please refer to the Turbo Ring DIP Switch section and Using

**Communication Redundancy** section in User’s Manual for more detail information about the settings and usage of Turbo Ring and Turbo Ring V2.

**EDS-510A Series DIP Switches**



The default setting for each DIP Switch is OFF. The following table explains the effect of setting the DIP Switch to the ON position.

**Turbo Ring DIP Switch Settings**

DIP 1	DIP 2	DIP 3	DIP 4
Reserved for future use.	<u>ON</u> : Enables this EDS as the Ring Master.	<u>ON</u> : Enables the default “Ring Coupling” ports.	<u>ON</u> : Activates DIP switches 1, 2, 3 to configure “Turbo Ring” settings.
	<u>OFF</u> : This EDS will not be the Ring Master.	<u>OFF</u> : Do not use this EDS as the ring coupler.	<u>OFF</u> : DIP switches 1, 2, 3 will be disabled.

**“Turbo Ring V2” DIP Switch Settings**

DIP 1	DIP 2	DIP 3	DIP 4
<u>ON</u> : Enables the default “Ring Coupling (backup)” port.	<u>ON</u> : Enables this EDS as the Ring Master.	<u>ON</u> : Enables the default “Ring Coupling” port.	<u>ON</u> : Activates DIP switches 1, 2, 3 to configure “Turbo Ring V2” settings.
<u>OFF</u> : Enables the default “Ring Coupling (primary)” port.	<u>OFF</u> : This EDS will not be the Ring Master.	<u>OFF</u> : Do not use this EDS as a ring coupler.	<u>OFF</u> : DIP switches 1, 2, 3 will be disabled.

**NOTE** You must enable the Turbo Ring function first before using the DIP switch to activate the Master and

Coupler functions.

**NOTE** If you do not enable any of the EDS-510A switches to be the Ring Master, the Turbo Ring protocol will automatically choose the EDS-510A with the smallest MAC address range to be the Ring Master. If you accidentally enable more than one EDS-510A to be the Ring Master, these EDS-510A switches will auto-negotiate to determine which one will be the Ring Master.

## LED Indicators

The front panel of the Moxa EDS-510A contains several LED indicators. The function of each LED is described in the following table:

LED	Color	State	Description
PWR1	AMBER	On	Power is being supplied to power input P1.
		Off	Power is <b>not</b> being supplied to power input P1.
PWR2	AMBER	On	Power is being supplied to power input P2.
		Off	Power is <b>not</b> being supplied to power input P2.
FAULT	RED	On	When the corresponding PORT alarm is enabled, and a user-configured event is triggered.



		Off	When the corresponding PORT alarm is enabled and a user-configured event is not triggered, or when the corresponding PORT alarm is disabled.
<b>MSTR/HEAD</b>	GREEN	On	When the EDS-510A is set as the Master of the Turbo Ring, or as the Head of the Turbo Chain.
		Blinking	The EDS-510A has become the Ring Master of the Turbo Ring, or the Head of the Turbo Chain, after the Turbo Ring or the Turbo Chain is down.
		Off	When the EDS-510A is not the Master of this Turbo Ring or is set as the Member of the Turbo Chain.

LED	Color	State	Description
<b>CPLR/TAIL</b>	GREEN	On	When the EDS-510A coupling function is enabled to form a back-up path, or when it's set as the Tail of the Turbo Chain.
		Blinking	When the Turbo Chain is down.
		Off	When the EDS-510A disables the coupling function, or is set as the Member of the Turbo Chain.
		On	TP port's 10 Mbps link is active.

<b>10M (TP)</b>	GREEN	Blinking	Data is being transmitted at 10 Mbps.
		Off	TP port's 10 Mbps link is inactive.
<b>100M (TP)</b>	GREEN	On	TP port's 100 Mbps link is active.
		Blinking	Data is being transmitted at 100 Mbps.
		Off	TP port's 100 Mbps link is inactive.
<b>1000M (TP/SFP)</b>	GREEN	On	TP/SFP port's 1000 Mbps link is active.
		Blinking	Data is being transmitted at 1000 Mbps.
		Off	TP/SFP port's 1000 Mbps link is inactive.

## Specifications

Technology

Standards	IEEE802.3, 802.3u, 802.3x, 802.1D, 802.1w, 802.1Q, 802.1p, 802.1X, 802.3ad, 802.3z
Protocols	IGMPv1/v2, GMRP, GVRP, SNMPv1/v2c/v3, DHCP Server/Client, BootP, TFTP, SNTP, SMTP, RARP, RMON, HTTP, H TTPS, Telnet, Syslog, DHCP Option 66/67/82, SSH, SNMP Inform, Modbus/TCP, LLDP, IEEE 1588 PTP, IPv6
MIB	MIB-II, Ethernet-like MIB, P-BRIDGE MIB, Q-BRIDGE MIB, Bridge MIB, RSTP MIB, RMON MIB Group 1,2,3,9
<b>Interface</b>	
RJ45 Ports	10/100/1000BaseT(X) auto negotiation speed, F/H duplex mode, and aut o MDI/MDI-X connection
Fiber Ports	optional 1000BaseSX/LX/LHX/ZX (LC connector)
Console Port	RS-232 (10-pin RJ45)
LED Indicators	PWR1, PWR2, FAULT, 10/100M (TP port), 1000M, MSTR/HEAD, CPLR/TAIL
Alarm Contact	Two relay outputs with current carrying capacity of 1A @ 24 VDC

Digital Input	<p>Two inputs with the same ground, but electrically isolated from the electronics</p> <ul style="list-style-type: none"> <li>• For state “1”: +13 to +30V</li> <li>• For state “0”: -30 to +3V</li> <li>• Max. input current: 8 mA</li> </ul>
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<b>Power</b>	
Input Voltage	24 VDC (12 to 45 VDC), redundant inputs
Input Current (@24V)	<p>0.48A: (EDS-510A-3GT)</p> <p>0.38A: (EDS-510A-1GT2SFP)</p> <p>0.33A: (EDS-510A-3SFP)</p>
Connection	Two removable 6-pin terminal blocks
Inrush Current	2.57A @ 24VDC
Overload Current Protection	Present
Reverse Polarity Protection	Present
<b>Mechanical</b>	
Casing	IP30 protection, metal case

Dimensions (W ´ H ´ D)	80.5 ´ 135 ´ 105 mm (3.17 ´ 5.31 ´ 4.13 in)
Weight	1.17 kg
Installation	DIN-Rail, Wall Mounting Kit (optional)
<b>Environment</b>	
Operating Temperature	-10 to 60°C (14 to 140°F), standard models -40 to 75°C (-40 to 185°F), wide temp. models
Storage Temperature	-40 to 85°C (-40 to 185°F)
Ambient Relative Humidity	5 to 95% (non-condensing)
<b>Regulatory Approvals</b>	
Safety	UL 508, UL 60950-1, EN 60950-1
Hazardous Location	UL/cUL Class I, Division 2, Groups A, B, C, and D, ATEX Zone 2, Ex nA nC IIC T4 Gc
EMI	FCC Part 15, CISPR (EN 55032) class A

EMS	<p>IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV IEC 61000-4-3 RS: 80MHz to 1GHz: 20 V/m</p> <p>IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV</p> <p>IEC 61000-4-5 Surge: Power 2 kV; Signal: 2 kV IEC 61000-4-6 CS: 10V</p> <p>IEC 61000-4-8</p>
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Vibration	IEC 60068-2-6
<b>WARRANTY</b>	5 years

## WARNING

This equipment is intended to be used in a Restricted Access Location.

WARNING: Hot Surface! Before touching it, special attention or protection is required.

## Documents / Resources

	<p><a href="#">MOXA EDS-510A Series EtherDevice Switch</a> [pdf] Instruction Manual</p> <p>EDS-510A Series EtherDevice Switch, EDS-510A Series, EtherDevice Switch</p>
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## References

- [Moxa - Support](#)