3onedata
Make network communication more reliable

RACK2000A
Ethernet Media Converter Rack
Quick Installation Manual

3onedata Co., Ltd.

Address: 3/B, Zone 1, Baiwangxin High Technology Industrial Park, Song Bai Road, Nanshan District, Shenzhen, 518108, China

Website: www.3onedata.com

Tel: +86 0755-26702688

Fax: +86 0755-26703485

【Package Checklist】

Please check whether the package and accessories are intact while using the Ethernet media converter for the first time.

1. Ethernet media converter rack x 1
2. Power cord
3. Quick Installation Manual
4. Certification
5. Warranty card

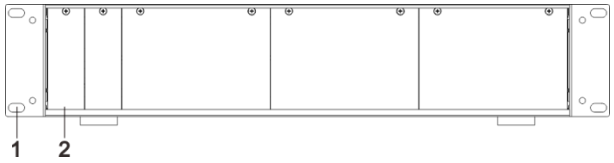
If any of these items are damaged or lost, please contact our company or dealers, we will solve it ASAP.

【Product Overview】

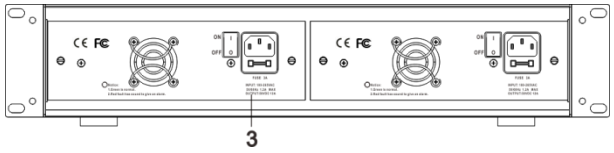
This product is an unmanaged 14 slots desktop Ethernet media converter 2U rack. The model is RACK2000A (14 slots desktop).

【Panel Design】

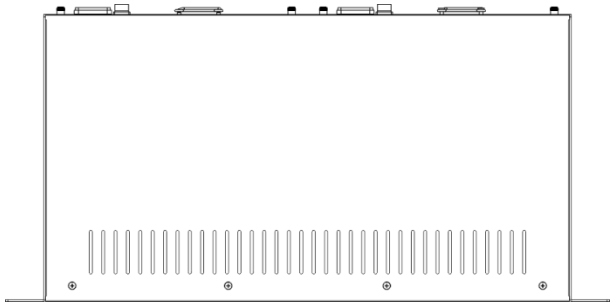
➢ **Front view**



➢ **Rear view**



➢ **Top view**

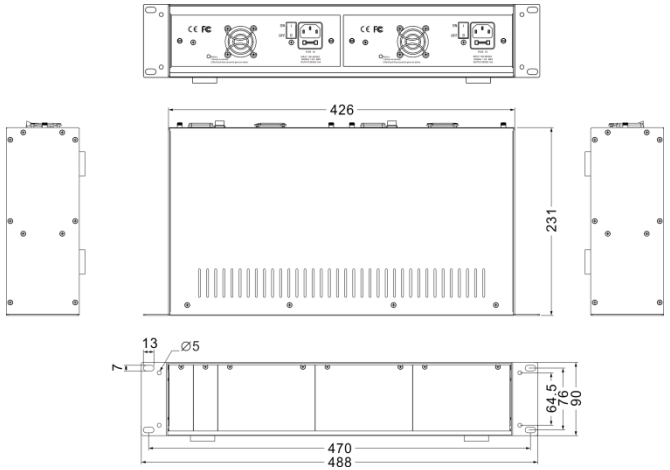


1. Mounting lug
2. Slot position (place the desktop device)
3. Power supply module

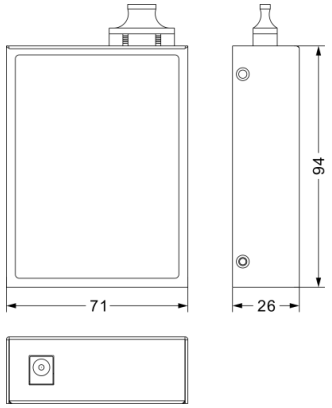
【Mounting Dimension】

Unit: mm

➢ **Rack**



➢ **Subset**



Note before mounting:

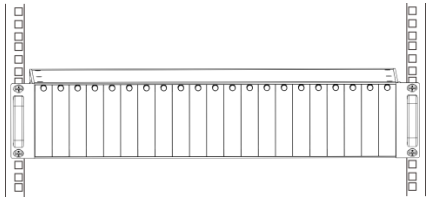
- Don't place or install the device in area near water or moist, keep the relative humidity of the device surrounding between 5%~95% without condensation.
- Before power on, first confirm the supported power supply specification to avoid over-voltage damaging the device.
- The device surface temperature is high after running; please don't directly contact to avoid scalding.

【Rack Mounting】

➢ **Install the device**

Step 1 Select the device installation location to reserve sufficient size.

Step 2 Place the device on the surface plate of the rack, and then adopt 4 screws to install the mounting lugs on the left and right sides on the rack.



Step 3 Check and confirm the product is firmly installed on the rack, then mounting ends.

➢ **Disassemble the device**

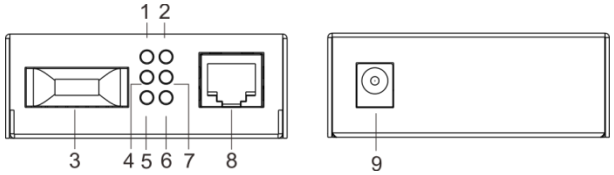
Step 1 Device power off.

Step 2 Unscrew the fixing screw of mounting lug on the rack.

Step 3 Remove the device from the rack, disassembling ends.

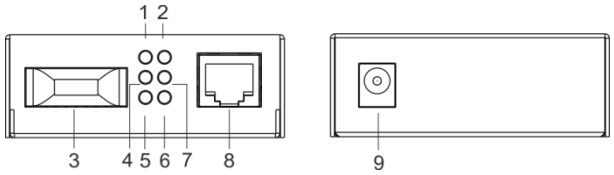
【Optional Subset】

➢ **100M Ethernet media converter**



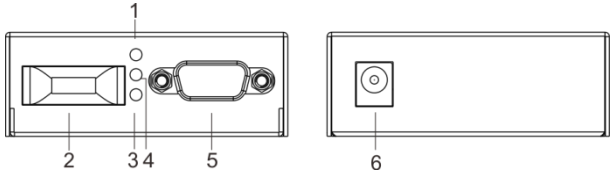
1. Fiber port 100M rate indicator (100)
2. Copper port 100M rate indicator (100)
3. 100M fiber port
4. Fiber port connection status indicator (Link/Act)
5. Copper port connection status indicator (Link/Act)
6. Fiber port duplex mode indicator (FDX)
7. Power supply connection status indicator (PWR)
8. 100M copper port
9. DC5V power supply input end

➢ **Gigabit Ethernet media converter**



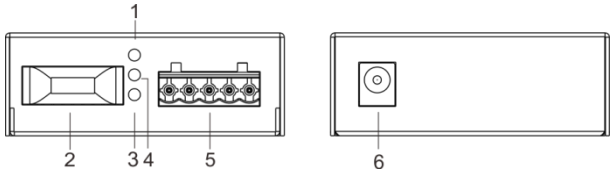
1. Copper port 100M rate indicator (100)
2. Copper port connection status indicator (TP-TX)
3. Gigabit fiber port
4. Fiber port connection status indicator (FX)
5. Power supply connection status indicator (PWR)
6. Copper port gigabit rate indicator (1000)
7. Copper port duplex mode indicator (DUP)
8. Gigabit copper port
9. DC5V power supply input end

➢ **RS-232 interface fiber MODEL**



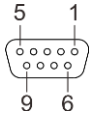
1. Fiber port sending data indicator (TXD)
2. 100M fiber port
3. Power supply connection status indicator
4. Fiber port receiving data and connection alarm indicator (RXD)
5. RS-232 serial port
6. DC5V power supply input end

➢ **RS-485/422 interface fiber MODEL**



1. Fiber port sending data indicator (TXD)
2. 100M fiber port
3. Power supply connection status indicator
4. Fiber port receiving data and connection alarm indicator (RXD)
5. RS-485/422 serial port
6. DC5V power supply input end

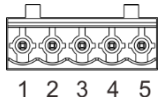
【RS-232 Serial Port】



The serial port of RS-232 interface fiber MODEL adopts DB9 female connection mode, the pin definition as follows:

Pin NO.	2	3	5
Pin definition	TXD	RXD	GND

【RS-485 Serial Port】

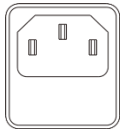


The serial port of RS-485/422 interface fiber MODEL adopts 5-pin terminal blocks, the pin definition as follows:

Pin NO.	1	2	3	4	5
RS-485	GND	-	-	D+	D-
RS-422	GND	R-	R+	T+	T-

【Power Supply Connection】

➢ **DC power supply**



Professional communication power supply is embedded in the rack, which supports dual power supply optional. Dual power supply device, when one power supply fails, it can immediately switch to another power supply to ensure the device continuous power supply. Power supply input range: 100~260VAC.

【Indicator】

➢ **100M Ethernet media converter**

Type	LED	Status	Description
Fiber port	100	ON	100Mbps
		OFF	10Mbps or out of service
	Link/Act	ON	Fiber port link is well connected
		Blinking	Data is transmitted
		OFF	Fiber port link is disconnected
	FDX	ON	Full duplex mode

Type	LED	Status	Description
		OFF	Half duplex mode
		Blinking	There exist conflicts
Copper port	100	ON	100Mbps
		OFF	10Mbps or out of service
	LNK/ACK	ON	Ethernet port is well connected
		Blinking	Data is transmitted
		OFF	Ethernet port link is disconnected
Power supply	PWR	ON	Power supply is normal
		OFF	Power supply is not powered or fails

- **Gigabit Ethernet media converter**

Type	LED	Status	Description
Fiber port	FX	ON	Fiber port link is well connected
		Blinking	Data is transmitted
		OFF	Fiber port link is disconnected
Copper port	100	ON	100Mbps
		OFF	10Mbps or out of service
	1000	ON	1000Mbps
		OFF	100Mbps or out of service
	TP-TX	ON	Ethernet port is well connected
		Blinking	Data is transmitted
		OFF	Ethernet port link is disconnected
	DUP	Blinking	Full duplex mode
		OFF	Half duplex mode
Power supply	PWR	ON	Power supply is normal
		OFF	Power supply is not

Type	LED	Status	Description
			powered or fails

- **RS-232 or RS-485/422 interface fiber MODEL**

Type	LED	Status	Description
Fiber port	RXD	ON	Without fiber connection alarm
		Blinking	Data is received
		OFF	Without data receiving
	TXD	ON	Data is transmitted
		OFF	Without data transmission
Power supply	PWR	ON	Power supply is normal
		OFF	Power supply is not powered or fails

【Specification】

Panel	
Copper port	10/100Base-T (X) or 10/100/1000Base-T (X), RJ45 interface, full duplex/half duplex self-adaptive
Fiber port	100Base-FX or 1000Base-FX fiber port, full duplex SC/ST/FC interface
Indicator	Power supply indicator, rate indicator, duplex indicator, copper port indicator, fiber port indicator
Power supply	
Input power supply	100~260VAC, 50~60Hz
Output power supply	5VDC
Consumption	
Full-load power	< 60W
Working environment	
Working temperature	0~50℃
Storage temperature	-10~70℃
Working humidity	5%~90% (no condensation)