Power Supplies

24/48 VDC power supplies for installation on a DIN-Rail

	24 VDC DIN-Rail Power Supplies					48 VDC DIN-Rail Power Supplies	
	DR-4524	DR-75-24	DR-120-24	MDR-40-24	MDR-60-24	DR-75-48	DR-120-48

Physical Characteristics and Temperature Limits							
Dimensions (mm)	78 x 67 x 93	55.5 x 100 x 125.2	65.5 x 100 x 125.2	40 x 90 x 100	40 x 90 x 100	55.5 x 100 x 125.2	65.5 x 100 x 125.2
Weight	400 g	550 g	650 g	260 g	280 g	550 g	650 g
Operating Temperature	-10 to 50°C (14 to 122°F)	-10 to 60°C (14 to 140°F)		-20 to 70°C (-4 to 158°F)		-10 to 60°C (14 to 140°F)	
Relative Humidity	20 to 90% RH	20 to 90% RH		20 to 90% RH		20 to 90% RH	
Power Requirements							
Wattage	45 W	75 W	120 W	40 W	60 W	75 W	120 W
Input	85-264 VAC (47-63 Hz), or 120-370 VDC		88-132 VAC, or 176-264 VAC (47-63 Hz) by switch, or 248-370 VDC	85-264 VAC (47-63 Hz) or 120-370 VDC		85-264 VAC (27-63 Hz) or 120-370 VDC	88-132 VAC, or 176-264 VAC (47-63 Hz) by switch, or 248-370 VDC
Output	48 W (24 VDC @ 0-2 A)	76.8 W (24 VDC @ 0-3.2 A)	120 W (24 VDC @ 0-5 A)	40 W (24 VDC @ 0-1.7 A)	60 W (24 VDC @ 0-2.5 A)	76.8 W (48 VDC @ 0-1.6 A)	120 W (48 VDC @ 0-2.5 A)
Over-voltage Protection	27.6-32.4 V	29-33 V		31.2-36 V		58-65 V	
Overload Protection	105-150%						
Type	Constant Current Limiting						
Reset	Auto Recovery						
Inrush Current	30 A and 115 V, or 60 A and 230 V						
Reliability							
Safety Standards	EN 60950-1, UL 508 approved						
EMC Standards	EN 55022 Class B, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, EN 61000-3-2, EN 50082-2						
Warranty	3 years (see www.moxa.com/warranty)						

⦂ Ordering Information

24 VDC DIN-Rail Power Supplies

DR-4524: 45W/2A DIN-Rail 24 VDC power supply with universal 85 to 264 VAC input, -10 to 50°C operating temperature

DR-75-24: 75W/3.2A DIN-Rail 24 VDC power supply with universal 85 to 264 VAC input, -10 to 60°C operating temperature

DR-120-24: 120W/5A DIN-Rail 24 VDC power supply with universal 88 to 132 VAC or 176 to 264 VAC input by switch, -10 to 60°C operating temperature

MDR-40-24: 40W/1.7A DIN-Rail 24 VDC power supply with universal 85 to 264 VAC input, -20 to 70°C operating temperature

MDR-60-24: 60W/2.5A DIN-Rail 24 VDC power supply with universal 85 to 264 VAC input, -20 to 70°C operating temperature

48 VDC DIN-Rail Power Supplies

DR-75-48: 75W/1.6A DIN-Rail 48 VDC power supply with universal 85 to 264 VAC input, -10 to 60°C operating temperature

DR-120-48: 120W/2.5A DIN-Rail 48 VDC power supply with universal 88 to132 VAC or 176 to 264 VAC input by switch, -10 to 60°C operating temperature

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Power Adaptors

The following power adaptors can be used with these products: NPort® DE-211/311, NPort® 5100/5200/5400/6150/6250/6450, NPort® W2004, NPort® 2150/2250 Plus, UC-7110/7410/7420, VPort 251

	PWR-12150-CN-S1	PWR-12120-USJP-S2	PWR-12200-DT-S1	PWR-12150-EU-S2	PWR-12150-UK-S2
Input Rating					
I/P	100-240 VAC, 50-60 Hz	100-240 VAC, 50-60 Hz	100-240 VAC, 50-60 Hz	100-240 VAC, 50-60 Hz	100-240 VAC, 50-60 Hz
Input Plug					
Plug Type	CN	US/JP	–	Euro	UK
Output Rating					
O/P	1.5 A @ 12 VDC	1.2 A @ 12 VDC	2 A @ 12 VDC	1.5 A @ 12 VDC	1.5 A @ 12 VDC
Output Plug					
Connector Type	L-type 5.5/2.1/9.0	L-type 5.5/2.1/9.5	S-type 5.5/2.1/7.5	L-type 5.5/2.1/9.0	L-type 5.5/2.1/9.0
Outer Diameter	5.5 ± 0.1 mm	5.5 ± 0.1 mm	5.5 ± 0.1 mm	5.5 ± 0.1 mm	5.5 ± 0.1 mm
Inner Diameter	2.1 ± 0.1 mm	2.1 ± 0.1 mm	2.1 ± 0.1 mm	2.1 ± 0.1 mm	2.1 ± 0.1 mm
Physical Characteristics					
Dimensions	70 x 45 x 54 mm	75 x 34 x 72 mm	110.8 x 51.8 x 32 mm	70 x 45 x 66.5 mm	70 x 45 x 60 mm
Weight	200 g	130 g	200 g	200 g	200 g
Cord Length	1800 ± 200 mm	1830 to 1950 mm	1800 ± 200 mm	1800 ± 200 mm	1800 ± 200 mm
Environmental Limits					
Operating Temperature	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)	0 to 40°C (32 to 104°F)
Regulatory Approvals					
Safety	UL/PSE	UL/PSE	UL/CE/FCC/GS/CCC	FCC/ELT/PSE/CE	CE/GS/FCC/PSE/ETL

Power Cords

The following power cords can be used with these products: CN2510, CN2600 Series, NPort® 5600 Series, NPort® 6600 Series, IKS-6500 series, IKS-G6500 series, ICS-G7800 series, ICS-G7700 series, ICS-G7500 series

PWC-C13US-3B-183

US Plug (110 V)
Thickness: 6.8 mm
Max. Current: 10 A
Length: 1830 mm

PWC-C13EU-3B-183

Euro Plug (250 V)
CEE 7/7 to IEC C13
Thickness: 6.8 mm
Max. Current: 10 A
Length: 1830 mm

PWC-C13UK-3B-183

UK Plug (250 V)
Thickness: 6.8 mm
Max. Current: 5 A
Length: 1830 mm

PWC-C13JP-3B-183

Japan Plug (125 V)
Thickness: 7.0 mm
Max. Current: 7 A
Length: 1830 mm

PWC-C13AU-3B-183

AU Plug (250 V)
Thickness: 6.0 mm
Max. Current: 10 A
Length: 1830 mm

PWC-C13CN-3B-183

CN Plug (250 V)
Thickness: 6.0 mm
Max. Current: 10 A
Length: 1830 mm

TK-485 Tuning Kit

Pull high/low resistance tuner with termination resistor

The TK-485, which has both a termination resistor and tuning resistor, is a great tool for engineers who build networks of daisy-chained 2-wire RS-485 devices. You no longer need to open up your RS-485 devices to add a termination resistor, and then add another resistor to tune the pull high/low resistance. Instead, simply connect the TK-485 to your RS-485 network, activate the termination resistor, and then tune the pull high/low resistor on the TK-485 until the RS-485 signal is transmitted intact.

: Specifications

Serial Protection
Isolation: 2 KV isolation protection
ESD Protection: ±4 KV protection from ESD due to contact discharge

Power Requirements
Power Input:
• 12 to 48 VDC input through power jack
• ±12 to ±48 VDC input through terminal block, with polarity protection

Resistance Options
Pull High: 600 Ω, 1 KΩ, 2 KΩ, 4.7 KΩ, 10 KΩ
Pull Low: 600 Ω, 1 KΩ, 2 KΩ, 4.7 KΩ, 10 KΩ
Terminator: 120 Ω

Connectors
Signal Inputs: D+, D-, GND
Signal Outputs: D+, D-, GND
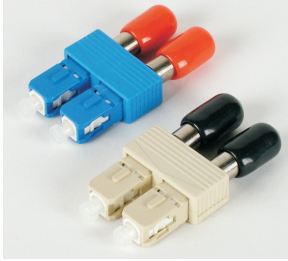
Environmental Limits
Operating Temperature: 0 to 55°C
Operating Humidity: 95% RH max., non-condensing
Storage Temperature: -20 to 70°C

Fiber Optic Adaptors

SC male to ST female duplex adaptors

These SC male to ST female duplex adaptors are provided as an optional accessory to give users of Moxa industrial Ethernet switches more fiber optic connection options. Simply plug the adaptors directly into the SC connector of any Moxa industrial Ethernet switch to convert the original SC connector into an ST connector. This allows you to use an ST connector with any MOXA industrial Ethernet switch, but without the need for an extra patchcord.

ADP-SCm-STf-S
SC male to ST female duplex adaptor for single-mode fiber

Specifications
Single-mode: 9/125 µm
Ferrules and Sleeves: Zirconia Ceramic
Body Color: Blue
Insertion Loss: 0.5/1.1 (TYP/MAX)
SC-side Connector: SC male
ST-side Connector: ST female

ADP-SCm-STf-M
SC male to ST female duplex adaptor for multi-mode fiber

Specifications
Multi-mode: 62.5/125 µm
Ferrules and Sleeves: Zirconia Ceramic
Body Color: Gray
Insertion Loss: 0.1/0.3 (TYP/MAX)
SC-side Connector: SC male
ST-side Connector: ST female

Mounting Kits

: Wall Mounting Kits

WK-30
Dimensions: 40 x 30 x 1 mm
Use with these products
Unmanaged Ethernet Switches:
EDS-205A, EDS-G205

WK-32
Dimensions: 30.3 x 140 x 12.3 mm
Use with these products

WK-46
Dimensions: 51.6 x 66.8 x 1 mm
Use with these products
Managed Ethernet Switches: EDS-400A,
EDS-500A, EDS-G509, EDS-P510, PT-500 series
Unmanaged Ethernet Switches: EDS-208A series,
EDS-300 series, EDS-G308, EDS-P308, EDS-P206A-4PoE
Media Converter: IMC-101G/101 series
Video Servers: VPort 254, VPort 351, VPort 354, VPort 461, VPort
3310, VPort D351

WK-51-01
Dimensions: 55 x 67 x 1 mm
Use with these products
Media Converters: IMC-P101 series,
PTC-101 series
Managed Ethernet Switches: EDS-P506A-4PoE,
EDS-316 V2.0
Wireless AP/Bridge/Client: AWK-3121 series,
AWK-3131 series
Dual-RF Wireless AP/Bridge/Client: AWK-5222
series
Secure Routers: EDR-G903 Series

WK-75
Dimensions: 75 x 90 x 2.5 mm
Use with these products
Modular Ethernet Switches: EDS-600 series

: Rack Mounting Kits

RK-4U (19")
Dimensions: 481 x 177.8 x 202.4 mm
Use with these products
Managed Ethernet Switches: EDS-400A, EDS-500A, EDS-728, EDS-828,
EDS-G509, EDS-P510, EDS-P506A-4PoE, TN-5500, PowerTrans PT-500 series
Unmanaged Ethernet Switches: EDS-200, EDS-200A, EDS-300, EDS-G205, EDS-G308, EDS-P308,
EDS-P206A-4PoE, ToughNet TN-5300 series
Media Converters: IMC-21, IMC-101, IMC-101G
Video Servers: VPort 351, VPort D351, VPort 361, VPort 451, VPort 461, VPort 254, VPort 354, VPort 364, VPort 3310
Secure Routers: EDR-G903 Series

: DIN-Rail Mounting Kits

DK-DC50131
Dimensions: 50 x 131 x 1 mm
Use with these products
Managed Ethernet Switches: TN-5500 series
Wireless AP/Bridge/AP Clients: AWK-4121 series,
AWK-6222 series, AWK-4131 series
Modular RTU Controller: ioPAC 8020

DK-M12-305
Dimensions: 60 x 125 x 12.8 mm
Use with these products
Unmanaged Ethernet Switches: TN-5305 series

DK-TN-5308
Dimensions: 66 x 174 x 12.8 mm
Use with these products
Unmanaged Ethernet Switches: TN-5308 series

DK-35A
Dimensions: 42.5 x 10 x 19.34 mm
Use with these products
Video Server: VPort 251

: Ordering Information

Available Models
WK-30: Wall mounting kit for the EDS-205A/G205 series
WK-32: Wall mounting kit for the EDS-728/828 series
WK-46: Wall mounting kit
WK-51-01: Wall mounting kit
WK-75: Wall mounting kit for the EDS-600 series

RK-4U: 4U-high 19" rack mounting kit
DK-DC50131: DIN-Rail mounting kit
DK-TN-5308: DIN-Rail mounting kit for the TN-5308 series
DK-M12-305: DIN-Rail mounting kit for the TN-5305 series
DK-35A: DIN-Rail mounting kit for the VPort 251/2141 series