



Technical Specifications

This appendix section provides specifications for the Cisco 800M Series ISRs such as router, port, cabling specifications, and power adapters and contains the following topics:

- [Router Specifications, page A-1](#)



Warning

Ultimate disposal of this product should be handled according to all national laws and regulations. Statement 1040



Note

For compliance and safety information, see [Regulatory Compliance and Safety Information for Cisco 800 Series Routers](#).

Router Specifications

[Table A-1](#) lists the operational limits of the Cisco 800M Series ISR. Operating the router outside of the limits specified is not supported. For the complete list of SKUs available for Cisco 800M Series ISRs, see the [“SKU Information” section on page 1-8](#).

Table A-1 Cisco 800M Series ISR Specifications

	Cisco C841M-4X/K9 ISR	Cisco C841M-8X/K9 ISR
Services and Slot Density		
Embedded hardware-based cryptography acceleration (IPsec + SSL)	Yes	Yes
RJ-45 onboard LAN/WAN 10/100/1000 ports	4 (LAN) + 2 (WAN)	8 (LAN) + 2 (WAN)
WIM slots	2	2
Memory (DDR3 DRAM): Default/maximum	512 MB/512 MB	1GB/1GB
Flash memory (internal): Default/maximum	2GB/2GB	2GB/2GB

Table A-1 Cisco 800M Series ISR Specifications (continued)

	Cisco C841M-4X/K9 ISR	Cisco C841M-8X/K9 ISR
External USB flash-memory slots (Type A)	1	1
Power supply	External AC to DC power-supply	External AC to DC power-supply
Redundant-power-supply support	No	No
Power Specifications		
AC input voltage	100-240V ~	100-240V ~
AC input frequency	50-60 Hz	50-60 Hz
AC input current range AC power supply (maximum) (amps)	0.16	0.16
AC input surge current	60A	60A
Typical power (no modules)	15W	15W
Maximum power capacity with AC power supply	30W	30W
Safety ground-wire size	AWG 14 (2.0 mm ²), minimum	AWG 14 (2.0 mm ²), minimum
Wire terminal (lug)	Amp/Tyco No.32957	Amp/Tyco No.32957
DC Voltage	12V	12V
DC maximum current	2.5A	2.5A
Over-current protection	3.7A DC	3.7A DC
Physical Specifications		
Dimensions (H x W x D)	1.72" x 13.5" x 6.9"	1.72" x 13.5" x 6.9"
Rack height	1RU	1RU
Rack-mount 19 in. (48.3 cm) EIA	Optional	Optional
Wall-mount (refer to installation guide for approved orientation)	Optional	Optional
Weight (maximum)	2.5 Kg with modules and 1.7 Kg without modules.	2.5 Kg with modules and 1.7 Kg without modules.
Airflow	Natural convection	Natural convection
Environmental Specifications		

Table A-1 Cisco 800M Series ISR Specifications (continued)

	Cisco C841M-4X/K9 ISR	Cisco C841M-8X/K9 ISR
Operating Conditions (at sea level)	0-40 C	0-40 C
Temperature: 5906 ft (1800m) maximum altitude	0-34 C	0-34 C
Temperature: 9843 ft (3000m) maximum altitude	0-30C	0-30C
Altitude	10000 ft	10000 ft
Humidity	10-85%	10-85%
Transportation and Storage Conditions		
Temperature	-40C to +70C	-40C to +70C
Humidity	5-95%	5-95%
Altitude	15000 ft	15000 ft
Regulatory Compliance		
Safety	IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 EN60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 ITE equipment UL 60950-1+ AMD 1 AMD 2 ITE equipment EN62311	IEC 60950-1:2005 (Second Edition); Am1:2009 + Am2:2013 EN60950-1:2006 + A1:2010 + A11:2009 + A12:2011 + A2:2013 ITE equipment UL 60950-1+ AMD 1 AMD 2 ITE equipment EN62311

Table A-1 Cisco 800M Series ISR Specifications (continued)

	Cisco C841M-4X/K9 ISR	Cisco C841M-8X/K9 ISR
EMC	EN55022 Class B	EN55022 Class B
	EN301 489-1	EN301 489-1
	EN301 489-7	EN301 489-7
	EN301 489-24	EN301 489-24
	EN61000-3-2	EN61000-3-2
	EN61000-3-3	EN61000-3-3
	EN55024	EN55024
	EN61000-4-2	EN61000-4-2
	EN61000-4-3	EN61000-4-3
	EN61000-4-4	EN61000-4-4
	EN61000-4-5	EN61000-4-5
	EN61000-4-6	EN61000-4-6
	EN61000-4-8	EN61000-4-8
	EN61000-4-11	EN61000-4-11
	VCCI Class B	VCCI Class B
	47 CFR Part 15	47 CFR Part 15
	EN 300 386 v1.6.1	EN 300 386 v1.6.1
Radio	EN 301 511	EN 301 511
	EN 301 908-1	EN 301 908-1
	EN 301 908-2	EN 301 908-2
	47 CFR PART 22	47 CFR PART 22
	47 CFR PART 24	47 CFR PART 24

Mean Time Between Failure Ground Benign Environment

[Table A-2](#) lists the Mean Time Between Failure (MTBF) values for Cisco 800M Series ISRs. The MTBF is calculated based on the Ground Benign condition. The values may be adjusted based on the different router usage.

Table A-2 MTBF Values

SKUs	MTBF (hours)
Chassis, Router, Modular, 1-4RU	440000