



Technical Specifications

This appendix provides router, port, cabling specifications, and power adapters for the Cisco IR829 Integrated Services Router (ISRs).

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NOTE: For compliance and safety information, see the [Regulatory Compliance and Safety Information for Cisco IR800 Series Routers](#)

Router Specifications

The following tables list the operational limits of the Cisco IR829. Operating the router outside of the limits specified is not supported.

Table 1: Certifications

Description	Design Specification
Standard Safety Certifications	UL 60950-1, 2nd edition; CAN/CSA C22.2 No. 60950-1, 2nd edition, EN 60950-1, 2nd edition; CB to IEC 60950-1, 2nd edition with all group differences and national deviations

Table 2: Physical Characteristics

Description	Design Specification
Dimensions (H x W x D)	(height x width x depth) are 7.70 x 11 x 1.73 in. (19.6 x 27.9 x 4.39 cm).
Weight	5 lb (2.26 kg)
Maximum Power Consumption	70 Watts with PoE

Table 3: Environmental Tests

Description	Design Specification
Ingress Protection Rating	IP 40 per IEC 60529 for Vertical Falling Water, Pollution Degree 3
Humidity	Non-condensing Relative Humidity: 5% to 95%
Military Standard	MIL-STD-810G Method 514.6: Procedure 1 Category 4, Secured Cargo - Common MIL-STD-810G Method 514.6: Procedure 1 Category 20, Ground Vehicles MIL-STD-810G Method 516.6. Procedure 1, Functional Shock MIL-STD-810G Method 516.6. Procedure 5, Crash Hazard MIL-STD-810G Method 516.6. Procedure 6, Bench Handling
Vibration and Shock (Railway Vehicles)	EN61373 Functional Random Vibe - Category 1, Class B EN61373 Simulated Non-op Long-life Vibe - Category 1, Class B EN61373 Non-op Shock, Class B
Heavy-Duty Vehicle Applications	SAE J1455 Operating Random Vibe, Cab Mounted Truck SAE J1455 Operating Sinusoidal Vibe, Category 3 SAE J1455 Non-operating Sinusoidal Vibe, Category 3 SAE J1455 Handling Drop Test

Table 4: Environmental Operating Ranges

Description	Design Specification
Operating Temperature and Altitude	-40° to 140°F (-40° to 60°C) in a sealed NEMA cabinet with no airflow -40° to 158°F (-40° to 70°C) in a vented cabinet with 40 lfm of air -29° to 167°F (-34° to 75°C) in a forced air enclosure with 200 lfm of air (type tested at +85C for 16 hours) -500 to 5,000 feet. Derate max operating temperature 1.5°C per 1000 feet. 10,000 ft maximum
Humidity	10% — 95% non-condensing