

Physical Specifications

This appendix provides information about the following:

- Switch Physical Specifications
- Stack Port Module Physical Specifications
- Fiber Token Ring Module Physical Specifications
- UTP/STP Token Ring Module Physical Specifications
- ATM Module Physical Specifications
- ISL Module Physical Specifications

Switch Physical Specifications

This section lists the power requirements, acceptable operating parameters, and physical dimensions for the base Catalyst 3900 Token Ring Switch.

Power Requirements

The Catalyst 3900's auto-ranging power supply operates on line voltage in the range of 90 to 264 VAC (auto-sensing) and 47 to 63 Hz, 150 Watts maximum. An appropriate power cord for the country of installation is shipped with the Catalyst 3900.

Operating Environment

Table D-1 lists the operating parameters for a Catalyst 3900.

Table D-1 Catalyst 3900 Operating Parameters

Characteristic	Value or Range
Operating temperature	50 F to 104 F (10 C to 40 C)
Operating relative humidity	8% to 80%
Maximum wet-bulb temperature	81 F (27 C)
Thermal dissipation	150 watts (maximum); 512 Btu/hr
Electrical power	1.5 A at 115V; 0.75 A at 230V
Leakage/starting	Current less than 3.5 mA/15 amperes/half cycle

Physical Dimensions

Table D-2 lists the physical dimensions of a Catalyst 3900.

Table D-2 Catalyst 3900 Physical Dimensions

Physical Feature	Dimension
Rack mounted width	19 in. (482.6 mm)
Standalone width	17.38 in. (441.45 mm)
Depth	15.25 in. (387.35 mm)
Height	3.4 in. (86.36 mm)
Weight	16 lbs (7.26 kg)

Note Rack mount brackets and mounting hardware are included with the unit.

Stack Port Module Physical Specifications

Table D-3 lists the power requirements of the stack port module.

Table D-3 Stack Port Module Power Requirements

Electrical power	8 watts maximum (at 5V DC \pm 5%)
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Table D-4 lists the operating parameters for the stack port module.

Table D-4 Stack Port Operating Parameters

Temperature	50 F to 104 F (10 C to 40 C)
Relative humidity	8% to 80%
Maximum wet-bulb temperature	81 F (27 C)
Calorific value	27 Btu/hr (7 kcal/hr)

Table D-5 lists the physical dimensions of the stack port module.

Table D-5 Stack Port Module Physical Dimensions

Width	170 mm (6.7 in.)
Depth	214 mm (8.4 in.)
Height	25 mm (1 in.)

Fiber Token Ring Module Physical Specifications

Table D-6 lists the power requirements of the fiber module.

Table D-6 Fiber Module Power Requirements

Electrical power	20 watts
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Table D-7 lists the operating parameters for the fiber Token Ring module.

Table D-7 Fiber Module Operating Parameters

Temperature	50 F to 104 F (10 C to 40 C)
Relative humidity	8% to 80%
Maximum wet-bulb temperature	81 F (27 C)

Table D-8 lists the physical dimensions of the fiber Token Ring module.

Table D-8 Fiber Module Physical Dimensions

Width	5.45 in. (138.4 mm)
Depth	8.06 in. (204.7 mm)
Height	1 in. (25.4 mm)
Weight	1 lb (.45 kg)

Table D-9 lists the optical power transmit and receive parameters of the fiber Token Ring module.

Table D-9 Fiber Module Transmit and Receive Parameters

Optical Power	Minimum	Typical	Maximum
Transmit	-16.0 dBm (25.1 μ)	-14.5 dBm (35.5 μ)	-12.0 dBm (63.1 μ)
Receive	-31.0 dBm (0.8 μ)		-11.0 dBm (79.4 μ)

UTP/STP Token Ring Module Physical Specifications

Table D-10 lists the power requirements of the UTP/STP module.

Table D-10 UTP/STP Module Power Requirements

Electrical power	20 watts
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Table D-11 lists the operating parameters for the UTP/STP Token Ring module.

Table D-11 UTP/STP Module Operating Parameters

Temperature	50 F to 104 F (10 C to 40 C)
Relative humidity	8% to 80%
Maximum wet-bulb temperature	81 F (27 C)

Table D-8 lists the physical dimensions of the UTP/STP Token Ring module.

Table D-12 UTP/STP Module Physical Dimensions

Width	5.45 in. (138.4 mm)
Depth	8.06 in. (204.7 mm)
Height	1 in. (25.4 mm)
Weight	1 lb (.45 kg)

ATM Module Physical Specifications

Table D-13 lists the power requirements of the ATM module.

Table D-13 ATM Module Power Requirements

Electrical power	5 amps at 5 volts DC or 25 watts
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Table D-14 lists the operating parameters for the ATM module.

Table D-14 ATM Module Operating Parameters

Temperature	50 F to 104 F (10 C to 40 C)
Relative humidity	8% to 80%
Maximum wet-bulb temperature	81 F (27 C)

Table D-15 lists the physical dimensions of the ATM module.

Table D-15 ATM Module Physical Dimensions

Width	6.7 in. (170 mm.)
Depth	8.4 in. (214 mm)
Height	1 in. (25 mm.)

ISL Module Physical Specifications

Table D-16 lists the power requirements of the ISL module.

Table D-16 ISL Module Power Requirements

Power consumption	20 watts
Thermal dissipation	68 BTU/hr

Table D-17 describes the operating environment for the ISL module.

Table D-17 Operational Parameters

Temperature	50 F to 104 F (10 C to 40 C)
Relative humidity	8% to 80%
Maximum wet-bulb temperature	81 F (27 C)

Table D-18 lists the physical dimensions of the ISL module.

Table D-18 Physical Dimensions

Width	5.45 in. (138.4 mm)
Depth	8.06 in. (204.7 mm)
Height	1 in. (25.4 mm)
Weight	1 lb (.45 kg)

Table D-19 lists the electromagnetic interference (EMI) standards with which the ISL module complies.

Table D-19 EMI Standards

STP	FCC Class A (47 CFR, Part 15), ICES-003 Class A, EN 55022 Class A, CISPR22 Class A, AS/NZS 3548 Class A, and VCCI Class A
UTP	EN 55022 Class B; CISPR22 Class B, AS/NZS 3590 Class B, and VCCI Class B
Fiber	EN 55022 Class B; CISPR22 Class B, AS/NZS 3590 Class B, and VCCI Class B

Note The use of unshielded cables may cause undesired interference in situations where Class B emissions are required.
