



# Technical Specifications

[Table A-1](#) lists the specifications for the Cisco 10005 ESR.

**Table A-1** Cisco 10005 System Specifications

Description	Specifications
Physical specifications	<ul style="list-style-type: none"> <li>• Weight: 140 lb (63.6 kg) for a fully configured chassis</li> <li>• Height: 11.9 in. (30.2 cm)</li> <li>• Width: 17.5 in. (44.4 cm)</li> <li>• Depth: 24.0 in. (61.0 cm)</li> <li>• Mounting: 19-in. or 23-in. rack mountable (front or mid), up to 6 units per 7 ft. rack</li> </ul>
Temperature range	<ul style="list-style-type: none"> <li>• Operating: 41°F to 104°F (5°C to 40°C) Short-term operating temperature: up to 131°F (55°C) in compliance with Telcordia GR-63</li> <li>• Storage: -40°F to 158°F (-40°C to 70°C)</li> </ul>
Relative humidity	<ul style="list-style-type: none"> <li>• Operating—nominal: 5% to 85%</li> <li>• Operating—short term: 5% to 90%</li> <li>• Storage: 5% to 95%</li> </ul>
Operating altitude	-197 ft to 13,123 ft. (-60 m to 4000 m)
Airflow	<ul style="list-style-type: none"> <li>• 200 cubic feet per minute (cfm) through the fan assembly</li> <li>• 240 cfm through the fan assembly if the exhaust temperature exceeds 104°F (40°C)</li> </ul>

Table A-1 Cisco 10005 System Specifications (continued)

Description	Specifications
Power modules	<p data-bbox="458 287 569 318"><b>DC PEM</b></p> <p data-bbox="458 334 1157 394">Supports one or two separate –48 VDC input feeds by means of three-position terminal blocks</p> <ul data-bbox="471 412 1059 667" style="list-style-type: none"> <li data-bbox="471 412 706 443">• DC input voltage: <ul data-bbox="518 456 1059 532" style="list-style-type: none"> <li data-bbox="518 456 915 487">– Nominal range –48 to –60 VDC</li> <li data-bbox="518 500 1059 532">– Absolute maximum range –40.5 to –75 VDC</li> </ul> </li> <li data-bbox="471 547 905 578">• DC input current: 20A @ –48 VDC</li> <li data-bbox="471 592 962 623">• Power consumption: 1300 VA maximum</li> <li data-bbox="471 638 868 667">• Heat dissipation: 4436 Btu/hour</li> </ul> <p data-bbox="458 682 672 712"><b>AC Power Supply</b></p> <ul data-bbox="471 727 1163 1027" style="list-style-type: none"> <li data-bbox="471 727 1002 758">• AC inlet power connector: IEC 320/C20 AC</li> <li data-bbox="471 773 1036 803">• AC input voltage and frequency (single phase): <ul data-bbox="518 818 1163 894" style="list-style-type: none"> <li data-bbox="518 818 1036 849">– Nominal range: 100 to 240 VAC, 50/60 Hz</li> <li data-bbox="518 862 1163 894">– Absolute maximum range: 90 to 255 VAC, 47 to 63 Hz</li> </ul> </li> <li data-bbox="471 909 817 940">• AC input current: 15 to 7 A</li> <li data-bbox="471 954 962 985">• Power consumption: 1500 VA maximum</li> <li data-bbox="471 1000 868 1031">• Heat dissipation: 5118 Btu/hour</li> </ul>



Table A-1 Cisco 10005 System Specifications (continued)

Description	Specifications
Gigabit Ethernet half-height line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-HH-1GE</li> <li>• Power: 13.3W</li> <li>• Weight: Approximately 2 lb (0.9kg)</li> <li>• Height: 7.8" (19.8cm) Depth: 11" (27.9cm) Width: 1.3" (3.3cm)</li> </ul> Gigabit Ethernet Converter (GBIC) Types: <ul style="list-style-type: none"> <li>• 1000BASE-SX—GLC-SX-MM (previously ESR-SFP-SX), multimode</li> <li>• 1000BASE-LX/LH—GLC-LH-SM (previously ESR-SFP-LX), single mode</li> </ul>
8-Port Fast Ethernet half-height line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-HH-8FE-TX</li> <li>• Power: 18.2W</li> <li>• Weight: Approximately 2 lb (0.9kg)</li> <li>• Height: 7.8" (19.8cm) Depth: 11" (27.9cm) Width: 1.3" (3.3cm)</li> </ul>
OC-12 Packet Over SONET (POS) line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-10C-12/P-SMI</li> <li>• Power: 28W</li> <li>• Weight: Approximately 4.75 lb (2.16 kg)</li> <li>• Height: 16.0 in. (40.64 cm) Depth: 9.97 in. (25.32 cm) Width: 1.12 in. (2.83 cm)</li> </ul>
6-Port OC-3 Packet Over SONET (POS) line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-6OC-3/P-SMI</li> <li>• Power: 39W</li> <li>• Weight: 4.75 lb (2.16 kg)</li> <li>• Height: 16.0 in. (40.64 cm) Depth: 9.97 in. (25.32 cm) Width: 1.12 in. (2.83 cm)</li> </ul>

**Table A-1 Cisco 10005 System Specifications (continued)**

Description	Specifications
6-Port channelized T3 line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-6CT3</li> <li>• Power: 75W</li> <li>• Weight: Approximately 4.75 lb (2.16 kg)</li> <li>• Height: 16.0 in. (40.64 cm) Depth: 9.97 in. (25.32 cm) Width: 1.12 in. (2.83 cm)</li> </ul>
8-Port channelized T3 line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-8E3/DS3</li> <li>• Power: 38.5W</li> <li>• Weight: Approximately 4.75 lb (2.16 kg)</li> <li>• Height: 16.0 in. (40.64 cm) Depth: 9.97 in. (25.32 cm) Width: 1.12 in. (2.83 cm)</li> </ul>
8-Port E3/DS3 ATM Line Card	<ul style="list-style-type: none"> <li>• Part Number: ESR-8E3DS3-ATM</li> <li>• Power: 30W</li> <li>• Weight: Approximately 4.75 lb (2.16 kg)</li> <li>• Height: 16.0 in. (40.64 cm) Depth: 9.97 in. (25.32 cm) Width: 1.12 in. (2.83 cm)</li> </ul>
24-Port E1/T1 line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-24CT1/E1</li> <li>• Power: 37W</li> <li>• Weight: Approximately 4.75 lb (2.16 kg)</li> <li>• Height: 16.0 in. (40.64 cm) Depth: 9.97 in. (25.32 cm) Width: 1.12 in. (2.83 cm)</li> </ul>

**Table A-1 Cisco 10005 System Specifications (continued)**

Description	Specifications
Channelized OC-12 line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-1COC12-SMI</li> <li>• Power: 85W</li> <li>• Weight: Approximately 4.75 lb (2.16 kg)</li> <li>• Height: 16.0 in. (40.64 cm) Depth: 9.97 in. (25.32 cm) Width: 1.12 in. (2.83 cm)</li> </ul>
OC-12 ATM line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-1OC12ATM-SM</li> <li>• Power: 28W</li> <li>• Weight: Approximately 4.75 lb (2.16 kg)</li> <li>• Height: 16.0 in. (40.64 cm) Depth: 9.97 in. (25.32 cm) Width: 1.12 in. (2.83 cm)</li> </ul>
Channelized STM-1 line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-4OC3-ChSTM-1</li> <li>• Power: 85W</li> <li>• Weight: Approximately 4.75 lb (2.16 kg)</li> <li>• Height: 16.0 in. (40.64 cm) Depth: 9.97 in. (25.32 cm) Width: 1.12 in. (2.83 cm)</li> </ul>

Table A-1 Cisco 10005 System Specifications (continued)

Description	Specifications
4-Port OC-3 ATM line card	<ul style="list-style-type: none"> <li>• Part Number: ESR-4OC3ATM-SM</li> <li>• Power: 28W</li> <li>• Weight: Approximately 4.75 lb (2.16 kg)</li> <li>• Height: 14.6 in. (40.64 cm) Depth: 9.5 in. (25.32 cm) Width: 1.12 in. (2.83 cm)</li> </ul>
Regulatory compliance	<p><b>Safety:</b></p> <ul style="list-style-type: none"> <li>• UL 1950, Third Edition (Safety of Information Technology Equipment, Including Electrical Business Equipment), with no deviations.</li> <li>• CSA 22.2 No. 950-95 Third Edition (Safety of Information Technology Equipment, Including Electrical Business Equipment).</li> <li>• EN 60950 (Safety of Information Technology Equipment, Including Electrical Business Equipment) incorporating Amendments 1, 2, 3 and 4, with all National Deviations.</li> <li>• IEC 950 incorporating Amendments 1, 2, 3 and 4, with all National Deviations.</li> <li>• ACA TS001 1997 Test Report and Statement of Compliance AS/NZS3260 incorporating amendment 1, 2, 3 and 4.</li> <li>• NOM-019-SCFI-1998, Safety of Data Processing Equipment.</li> <li>• Laser safety: <ul style="list-style-type: none"> <li>– 21CFR1040, Subchapter J</li> <li>– EN60825-1, EN60825-2</li> </ul> </li> </ul>

Table A-1 Cisco 10005 System Specifications (continued)

Description	Specifications
Regulatory compliance (continued)	<p data-bbox="458 285 948 318"><b>Electromagnetic Emissions Certification:</b></p> <ul data-bbox="471 334 827 675" style="list-style-type: none"> <li data-bbox="471 334 787 367">• 47CFR15 Class B (FCC)</li> <li data-bbox="471 383 706 415">• CISPR22 Class B</li> <li data-bbox="471 431 706 464">• EN55022 Class B</li> <li data-bbox="471 480 760 513">• AS/NZS 3548 Class B</li> <li data-bbox="471 529 713 561">• ICES-003 Class B</li> <li data-bbox="471 578 666 610">• VCCI Class B</li> <li data-bbox="471 626 827 659">• BSMI (CNS 13438) Class B</li> <li data-bbox="471 675 827 708">• EN61000-3-2, EN61000-3-3</li> </ul> <p data-bbox="458 724 585 756"><b>Immunity:</b></p> <p data-bbox="458 756 787 789">EN61000-4-2 ESD Immunity</p> <p data-bbox="458 789 942 821">EN61000-4-3 Radiated RF Field Immunity</p> <p data-bbox="458 821 1049 854">EN61000-4-4 Immunity to Electrical Fast Transients</p> <p data-bbox="458 854 801 886">EN61000-4-5 Surge Immunity</p> <p data-bbox="458 886 895 919">EN61000-4-6 RF Conducted Immunity</p> <p data-bbox="458 919 895 951">EN61000-4-11 Dips + Sags (AC Input)</p> <p data-bbox="458 967 659 1000"><b>NEBS/Telcordia:</b></p> <p data-bbox="458 1000 753 1032">NEBS Physical Protection</p> <p data-bbox="458 1032 720 1065">NEBS EMC and Safety</p> <p data-bbox="458 1065 1042 1097">Telcordia GR-63-CORE, GR-1089-CORE, SR-3580</p> <p data-bbox="458 1114 532 1146"><b>ETSI:</b></p> <p data-bbox="458 1146 1009 1179">ETS 300 386-1, ETS 300 386-2, ETSI 300 132-2</p>