

# Refurbished CISCO SM-D-48FXS-E Datasheet

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## Products

| Cisco VG350 Technical Specifications         |                                                                                                                                                                                                                |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category                                     |                                                                                                                                                                                                                |
| System                                       | VG350                                                                                                                                                                                                          |
| Processor                                    | High-performance multicore processors                                                                                                                                                                          |
| Memory (default)                             | 1GB SDRAM                                                                                                                                                                                                      |
| Compact Flash                                | 256 MB                                                                                                                                                                                                         |
| Ethernet                                     | Up to three 10/100/1000 Ethernet LAN ports.<br>Two of the 10/100/1000 Ethernet LAN ports can support Small Form-Factor Pluggable (SFP)-based connectivity in lieu of RJ-45 ports, enabling fiber connectivity. |
| Power                                        |                                                                                                                                                                                                                |
| AC Input Voltage                             | 100 to 240 VAC autoranging                                                                                                                                                                                     |
| AC Input Current (max)                       | 7.1 to 3.0Amp                                                                                                                                                                                                  |
| DC Input Voltage                             | -48V DC                                                                                                                                                                                                        |
| Frequency                                    | 47 to 63 Hz                                                                                                                                                                                                    |
| Power Dissipation                            | 230Watts (maximum consumption)<br>(Power Supply rated for 540W capacity)                                                                                                                                       |
| Physical                                     |                                                                                                                                                                                                                |
| Width                                        | 17.25 inches (438.15 mm)                                                                                                                                                                                       |
| Height                                       | 5.25 x (133.35 mm)                                                                                                                                                                                             |
| Depth                                        | 18.75 inches (476.25 mm)                                                                                                                                                                                       |
| Weight (max)                                 | 48.08 lbs.                                                                                                                                                                                                     |
| Environment                                  |                                                                                                                                                                                                                |
| Operating Temperature                        | 32 to 104°F (0 to 40°C)                                                                                                                                                                                        |
| Non-operating Temperature                    | -40 to 158°F (-40 to 70°C)                                                                                                                                                                                     |
| Operating Humidity                           | 5 to 95%                                                                                                                                                                                                       |
| Noise Level (max)                            | Sound Pressure: 57.6 dB typical, 77.6 dB maximum<br>Sound Power: 67.8 dB typical, 84.7 dB maximum                                                                                                              |
| Compatibility                                |                                                                                                                                                                                                                |
| Cisco IOS Software Release                   | 15.2(4)M or later                                                                                                                                                                                              |
| Cisco Unified Communications Manager Version | 8.6.2(SU2), 9.0.1 or higher                                                                                                                                                                                    |
| Tip/Ring Interfaces for Each FXS Port (SLIC) |                                                                                                                                                                                                                |
| Interface Type                               | FXS (on-premise connection only)(RJ-21)<br>(Optional HWIC FXS modules on mother board have RJ-11 connectors)                                                                                                   |
| Address Signaling Formats                    | In-band DTMF                                                                                                                                                                                                   |

|                                                    |                                                                                                                                                                                                  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    | Out-of-band pulse (8-12 pps)                                                                                                                                                                     |
| <b>FXS Signaling Formats</b>                       | SM-D-72FXS and SM-D-48FXS-E support Loop-start and Ground-start signaling<br>HWIC slots on mother board support FXS loop-start, ground-start and DID signaling                                   |
| <b>FXS Loop Resistance</b>                         | Up to 600 ohms (including phone or terminal equipment) for short loop-length port<br>Up to 1400 ohms (including phone or terminal equipment) for long loop-length port                           |
| <b>On-Hook Voltage</b>                             | -44V                                                                                                                                                                                             |
| <b>Off-Hook Loop Current</b>                       | 25 mA (maximum) short loop-length port<br>35mA (maximum) long loop-length port                                                                                                                   |
| <b>Ring Tone</b>                                   | Configurable for different country requirements                                                                                                                                                  |
| <b>Ring Voltage</b>                                | 54 Vrms into 5REN at zero loop length (balanced) (short loop-length port)<br>62 Vrms into 2REN at zero loop length (balanced) (long loop-length port)                                            |
| <b>Ring Frequency</b>                              | 20 Hz, 25 Hz, 30 Hz, 50 Hz                                                                                                                                                                       |
| <b>Ring Waveform</b>                               | Sine wave if no DC offset                                                                                                                                                                        |
| <b>REN Loading</b>                                 | 5REN per port (short loop-length port)<br>2REN per port (long loop-length port)<br>(Max 40 total REN load per each SM-D-72FXS module; Max 30 total REN load per each SM-D-48FXS-E module)        |
| <b>RJ-11 FXS Port Terminating Impedance Option</b> | 600c, 600r, 900c, 900r, complex1, complex2, complex3, complex4, complex5 and complex6                                                                                                            |
| <b>Disconnect Supervision</b>                      | Power denial (Calling Party Control, far-end disconnect)                                                                                                                                         |
| <b>Caller ID</b>                                   | On-hook transmission of frequency-shift-keying (FSK) data                                                                                                                                        |
| <b>VMWI</b>                                        | FXS ports on HWIC slot supports FSK VMWI only<br>FXS ports on SM-D-FXS modules support both FSK and DC voltage VMWI. Default to FSK.<br>(DC voltage VMWI is only supported with STCAPP protocol) |
| <b>FXS Loop Length</b>                             | Short loop-length port 3000 ft, 26 AWG 5500ft, 24AWG<br>Long loop-length port 11,000ft, 26AWG 18,000 24AWG                                                                                       |
| <b>Category Cable</b>                              | Cat3, Cat5                                                                                                                                                                                       |
| <b>Physical Connector</b>                          | RJ-21 and RJ-11                                                                                                                                                                                  |

### Certifications

|                 |                                                                                                                                                                                                                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safety</b>   | UL 60950-1<br>CAN/CSA C22.2 No. 60950-1<br>EN 60950-1<br>AS/NZS 60950-1<br>IEC 60950-1                                                                                                                                                                                                             |
| <b>Immunity</b> | EN 55024, CISPR 24<br>EN50082-1<br>EN 61000                                                                                                                                                                                                                                                        |
| <b>EMC</b>      | 47 CFR, Part 15<br>ICES-003 Class A<br>EN55022 Class A<br>CISPR22 Class A<br>AS/NZS 3548 Class A<br>VCCI V-3<br>CNS 13438<br>EN 300-386                                                                                                                                                            |
| <b>TELCOM</b>   | TIA/EIA/IS-968<br>CS-03<br>ANSI T1.101<br>ITU-T G.823, G.824<br>IEEE 802.3<br>RTTE Directive<br>Homologation requirements vary by country and interface type. For specific country information, see the on-line approvals data base: <a href="http://www.ciscofax.com">http://www.ciscofax.com</a> |

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