Tel: +44 (0)1279 408 777
Email: sales@gocomsys.com
Website: www.gocomsys.com

# Refurbished CISCO WS-C3650-48FD-E Datasheet

CISCO > SWITCHES

## Cisco Catalyst 3650 Series Switches

### Cisco Catalyst 3650 Series Configurations

| Models | |
|---|---|
| **Fixed Uplinks** | 2 x 10 Gigabit Ethernet with SFP+ and 2 x 1 Gigabit Ethernet with SFP |
| **Total 10/100/1000 Ethernet Ports** | 1025 WAC |
| **Default AC Power Supply** | 775 W |

### Cisco Catalyst 3650 Performance Specifications

| Performance Numbers for All Switch Models | |
|---|---|
| **Switching capacity** | 176 Gbps on 48-port models (non-multigigabit models)<br>92 Gbps on 24-port models (non-multigigabit models)<br>254 Gbps on 24-port Multigigabit models with 2x10G uplink<br>272 Gbps on 24-port Multigigabit models with 4x10G uplink<br>392 Gbps on 48-port Multigigabit models with 4x10G uplink<br>472 Gbps on 48-port Multigigabit models with 8x10G uplink<br>472 Gbps on 48-port Multigigabit models with 2x40G uplink |
| **Stacking bandwidth** | 160 Gbps |
| **Total number of MAC addresses** | 32,000 |
| **Total number of IPv4 routes (ARP plus learned routes)** | 24,000 |
| **FNF entries** | 48,000 flow on 48-port models<br>24,000 flows on 24-port models |
| **DRAM** | 4 GB |
| **Flash** | 2 GB (non-Multigigabit models) and 4GB (Multigigabit models) |
| **VLAN IDs** | 4,094 |
| **Total switched virtual interfaces (SVIs)** | 1,000 |
| **Jumbo frame** | 9198 bytes |
| **Wireless** | |
| **Number of access points per switch/ stack** | 25 |
| **Number of wireless clients per switch/ stack** | 1000 |
| **Total number of WLANs per switch** | 64 |
| **Wireless bandwidth per switch** | Up to 40 Gbps on 48-port models<br>Up to 20 Gbps on 24-port models |
| **2 x 10 Gigabit Ethernet Uplink-Models** | |
| **3650-24TD 3650-24PD 3650-24PDM** | 68.45 Mpps |
| **3650-48TD 3650-48PD 3650-48FD** | 104.16 Mpps |
| **3650-8X24PD** | 172.61 Mpps |

| 4 x 10 Gigabit Ethernet Uplink-Models | |
|---|---|
| **3650-48TQ 3650-48PQ 3650-48FQ 3650-48FQM** | 130.95 Mpps |
| **3650-8X24UQ** | 202.38 Mpps |

## Dimensions, Weight, Acoustic, MTBF, and Environmental Range

| Weight | |
|---|---|
| **Pounds** | 17.20 |
| **Kilograms** | 7.80 |

| MTBF Hours | |
|---|---|
| **MTBF Hours** | 383,760 |

| Environmental Ranges | |
|---|---|
| **With AC Power Supply Operating Environment and Altitude** | Normal operating temperature and altitudes:<br>-5ºC to +45ºC, up to 5000 feet (1500m)<br>-5ºC to +40ºC, up to 10,000 feet (3000m)<br>-5ºC to +35ºC, up to 13,000 feet (4000m)<br>-5ºC to +30ºC, up to 16,400 feet (5000m)<br>Minimum ambient temperature for cold start is 32°F (0°C). |
| **With AC Power Supply Operating Environment and Altitude for WS-C3650-24PDM and WS-C3650-48FQM** | Normal operating temperature and altitudes:<br>-5ºC to +45ºC, up to 5000 feet (1500m)<br>-5ºC to +45ºC, up to 10,000 feet (3000m)<br>Minimum ambient temperature for cold start is 32°F (0°C). |
| **With DC Power Supply Operating Environment and Altitude (NEBS)** | Normal operating temperature and altitudes:<br>-5ºC to +45ºC, up to 6000 feet (1800m)<br>-5ºC to +40ºC, up to 10,000 feet (3000m)<br>-5ºC to +35ºC, up to 13,000 feet (4000m)<br>-5ºC to +30ºC, up to 16,400 feet (5000m) |

| Acoustic Noise Measured Per ISO 7779 and Declared Per ISO 9296 Bystander Positions Operating to an Ambient Temperature of 25°C | |
|---|---|
| **Acoustic Noise Measured Per ISO 7779 and Declared Per ISO 9296 Bystander Positions Operating to an Ambient Temperature of 25°C** | With AC or DC power supply (with 16 PoE+ ports loaded):<br>LpA:<br>45dB typical, 48dB maximum<br>42dB typical, 45dB maximum for WS-C3650-24PDM and WS-C3650-48FQM<br>LwA:<br>5.5B typical, 5.8B maximum<br>5.3B typical, 5.6B maximum for WS-C3650-24PDM and WS-C3650-48FQM<br>Typical: Noise emission for a typical configuration<br>Maximum: Statistical maximum to account for variation in production |
| **Storage Environment** | Temperature: -40 to 158º F (-40 to 70º C)<br>Altitude: 16,400 ft (5,000 m) |
| **Vibration** | Operating: 0.41Grms from 3 to 500Hz with spectral break points of 0.0005 G2/Hz at 10Hz and 200Hz 5dB/octave roll off at each end. |
| **Shock** | Operating: 30G, 2ms half sine |

## Connectors

| | |
|---|---|
| **Connectors and cabling** | 1000BASE-T ports: RJ-45 connectors, 4-pair Cat-5E UTP cabling<br>1000BASE-T SFP-based ports: RJ-45 connectors, 4-pair Cat-5E UTP cabling<br>100BASE-FX, 1000BASE-SX, -LX/LH, -ZX, -BX10, DWDM and CWDM SFP transceivers: LC fiber connectors (single-mode or multimode fiber)<br>10GBASE-SR, LR, LRM, CX1 (v02 or higher) SFP+ transceivers: LC fiber connectors (single-mode or multimode fiber)<br>Cisco StackWise-160 stacking ports: copper-based Cisco StackWise cabling<br>Ethernet management port: RJ-45 connectors, 4-pair Cat-5 UTP cabling<br>Management console port: RJ-45-to-DB9 cable for PC connections |
| **Power connectors** | Customers can provide power to a switch by using the internal power. The connectors are located at the back of the switch<br>Internal power supply connector: The internal power supply is an auto-ranging unit. The internal power supply supports input voltages between 100 and 240VAC. Use the supplied AC power cord to connect the AC power connector to an AC power outlet |

## Power Consumptions (in Watts) of Standalone Cisco Catalyst 3650 Series

| | Model |
|---|---|
| **Fixed Uplink** | 2 x 10 Gigabit Ethernet with SFP+ and 2 x 10 Gigabit Ethernet with SFP+ or 4 x Gigabit Ethernet with SFP |
| **100% Traffic** | 106.5 |
| **Weighted Average** | 109.4 |
| **Model** | 105.03 |

## Safety and Compliance Information for Cisco Catalyst 3650 Series

| | Description |
|---|---|
| **Description** | Specification |
| **Safety Certifications** | UL 60950-1 Second Edition<br>CAN/CSA-C22.2 No. 60950-1 Second Edition<br>EN 60950-1 Second Edition<br>IEC 60950-1 Second Edition<br>GOST<br>NOM (obtained by partners and distributors) |
| **Electromagnetic Emissions Certifications** | 47CFR Part 15 (CFR 47) Class A (FCC Part 15 Class A)<br>AS/NZS CISPR22 Class A<br>CISPR22 Class A<br>EN55022 Class A<br>ICES003 Class A<br>VCCI Class A<br>EN61000-3-2<br>EN61000-3-3<br>KN22 Class A<br>KCC<br>CNS13438 Class A<br>EN55024<br>CISPR24<br>KN24 |
| **Environmental** | Reduction of Hazardous Substances (ROHS) 5 |
| **Noise Specifications** | Office Product Spec: 48dBA at 25°C (refer to ISO 7779) |
| **Telco** | Common Language Equipment Identifier (CLEI) Code |

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