FastHub 200 Series 100BaseT Repeaters

The Cisco Systems FastHub® 200 series delivers the lowest-cost, managed 100BaseT hub solution for smaller workgroups and server farms. These Class II standalone hubs combine 100-Mbps performance and integrated management with Cisco IOS™ technologies in an extremely affordable solution.

The FastHub 200 series repeaters are ideal high-performance alternatives to 10BaseT hubs, delivering affordable 100-Mbps performance to smaller workgroups and server farms. The hubs are also an integral element in Cisco's NetBeyond™ extended network system and CiscoFusion end-to-end solutions. The FastHub 216T has 16 100BaseTX ports for high-speed connectivity over unshielded twisted pair (UTP) wiring.

The hub's unique Class II design lets you connect two hubs together, creating a 30-port collision domain. The FastHub 216T can connect to other Class II repeaters including the FastHub 300 and FastHub 100 series. The FastHubs' Class II design also lets you distribute and connect hubs in separate wiring closets, without requiring an intermediate switch, bridge, or router.

Figure 1 FastHub 200 series hubs provide affordable, managed 100-Mbps performance

The FastHub 200 series' integrated management delivers Simple Network Management Protocol (SNMP), Telnet, Remote Monitoring (RMON), and an out-of-band management console for comprehensive management and simplified troubleshooting on a per-port and per-hub basis. In addition, an extensive array of mode-selectable LEDs offers a convenient visual display of each port's status and the overall traffic load.

The FastHub 200 series hubs also are equipped with a connector for a future optional redundant power supply (RPS) guaranteeing maximum uptime for your mission critical applications.

Key Features/Benefits

Exceptional affordability

- Sixteen managed 100BaseTX ports available for workgroups and server farms at a market-leading price

Standards-based 100-Mbps performance

- 100-Mbps peak and aggregate throughput enables high performance data transfers for workgroups and server farms
- Delivers up to 10 times the performance of a 10BaseT hub
- Compatible with IEEE 802.3u standard for interoperability with other 100BaseT products

Integrated management

- Built-in management lets you monitor all ports individually and as an entire unit
- SNMP, Telnet, terminal-based out-of-band management and RMON support provides comprehensive management and simplified troubleshooting

- Manageable by CiscoWorks™ Windows, and other SNMP-compatible management systems on a per-port and per-hub basis
- Cisco Discovery Protocol (CDP) enables a CiscoWorks network management station to automatically discover the hub in a network topology without user intervention
- Multi-function LED per port for Link Integrity/Receive Activity and Port Enabled/Disabled indication, and a Collision Indicator provide a comprehensive and convenient visual management system
- Utilization meter lets you gauge network loads quickly

Class II scalability

- 100BaseT Class II repeater design allows:
  - Two FastHubs to be directly interconnected to create a single collision domain of up to 30 ports
  - Two FastHubs to be distributed in separate wiring closets and directly connected without a bridge, switch, or router

Part of a total Cisco solution

- Integral element of the NetBeyond extended network system of modular, stackable LAN and WAN products
- Key component of Cisco's full line of Fast Ethernet and CiscoFusion end-to-end solutions
- Integrates Cisco IOS technologies

Technical Specifications

Indicators

- Per-port LEDs indicate Link Integrity, Receive Activity, and Enabled/Disabled status
- Hub Utilization Meter and Collision LEDs gauge network load
- Hub status and RPS status LEDs

Cabling Requirements

- 100BaseTX ports:
  - Integrated 100BaseTX media interface for use with two-pair Category 5 UTP cabling
  - Standard RJ-45 connectors

Hub Interconnection Guidelines

- Connecting the uplink port on the FastHub 216T to a non-uplink port on a second hub requires a straight-through cable
- Connecting the non-uplink port on a FastHub 216T to a non-uplink port on a second hub requires crossover cables
- A maximum of one direct 100BaseT connection between two repeaters is permitted

Configuration Guidelines

- Maximum cable distance between any two end stations with one FastHub 200 series repeater in the path:
  - 656 ft. (200 m)
- Maximum cable distance between any two end stations with two repeaters in the path:
  - 731 ft. (223 m) with two FastHub 200 series repeaters
  - 702 ft. (214 m) with one FastHub 200 series repeater and one third-party 100BaseT Class II repeater
- Maximum cable distance between 100BaseTX port and an end node:
  - 328 ft. (100 m)

Network Management Support

- SNMP Management Information Base (MIB) II, SNMP MIB extensions, Ethernet interface MIB, Repeater MIB, and RS-232 MIB
- Manageable under CiscoWorks, CiscoWorks Windows and other SNMP management systems
- IP address assignment via Dynamic Host Configuration Protocol (DHCP) or Bootstrap Protocol (BOOTP)
- RMON MIB, (EtherStats, EtherHistory, Alarms, Thresholds)
- VT100-based Telnet console and out-of-band management console

Dimensions and Weight (H x W x D)

- 1.73 x 17.50 x 8.25 in. (4.4 x 44.5 x 21.0 cm)
- 11 lbs (5kg)

Environmental Conditions and Power Requirements

- Operating temperature: 23 to 113F (-5 to 45˚C)
- Operating relative humidity: 10 to 85% noncondensing
- Operating altitude: Up to 3000 m
- Power consumption: 40W
- Input voltage: 90 - 127/200 - 240 VAC (auto ranging) 50 to 60 Hz

Safety Certifications

- AS/NZS 3260, TS001
- UL 1950/CSA 22.2 No. 950
- IEC 950/EN 60950
- NOM 019
- CE

Electromagnetic Emissions Certifications

- FCC Part 15 Class B
- EN 55022B Class B (CISPR22 Class B)
- VCCI Class II
- AS/NRZ 3548 Class B
- CE

To Order:

Product	Description	Model Number
FastHub 216T	16-port 100BaseTX managed repeater	WS-C216T

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