FastHub 100 Series Hubs

This chapter provides information on the FastHub 100 series of 100BaseT hubs. The information is organized into the following sections:

- Product Overview
- Standard Features
- Supported Applications
- Product Numbers

Note Documentation for the FastHub 100 series of 100BaseT hubs is available in two forms: on a CD-ROM called Cisco Connection Documentation, Enterprise Series and printed books. A CD and hard-copy installation documentation ship with each chassis, and a configuration note ships with each component ordered. All configuration notes are available on the CD. Additional CDs and a subscription CD update service are also available.

You can also access Cisco technical documentation on the World Wide Web URL http://www.cisco.com. For more information, see the chapter "Documentation" at the end of the catalog.

Product Overview

The FastHub 100 series of standalone 100BaseT hubs, used alone or with Cisco routers and Catalyst switches, provides affordable 100-Mbps performance for a variety of applications including power users, server farms, and high-speed local backbones for switch-based networks. Available in a range of port densities and supporting unshielded twisted-pair (UTP) or fiber cabling, these hubs offer configuration and media flexibility.

The FastHub 100 series of hubs consists of the following models:

- FastHub 104T: 4-port 100BaseTX hub
- FastHub 108T: 8-port 100BaseTX hub
- FastHub 112F: 12-port 100BaseFX hub

> **Note** For information about the FastHub 100+ series of 100BaseT hubs, see the chapter "FastHub 100+ Series Hubs."
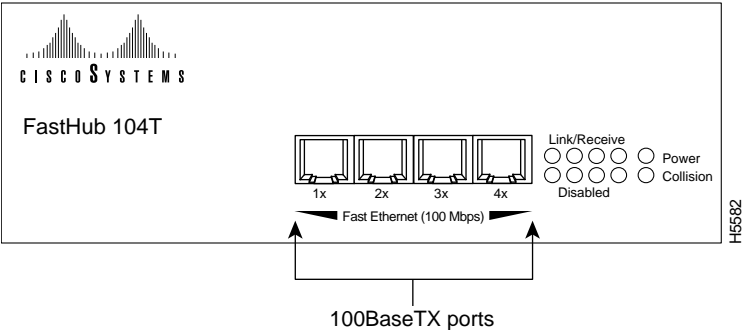
Figure 143 FastHub 104T 100BaseTX Hub
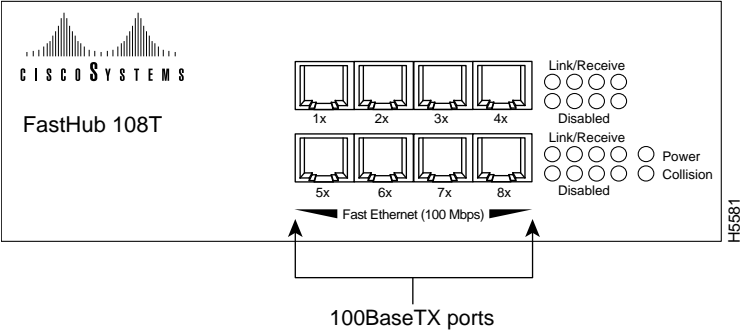

Figure 144 FastHub 108T 100BaseTX Hub

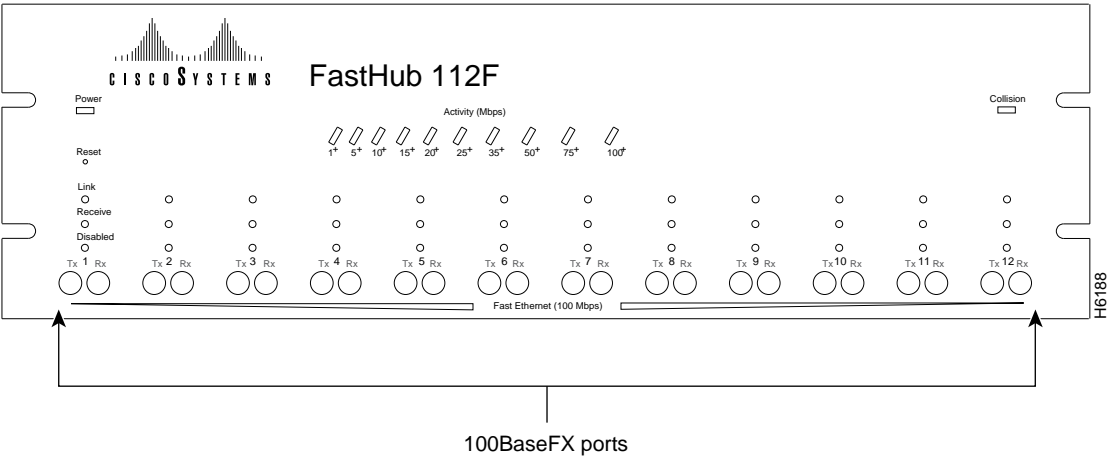**Figure 145 FastHub 112F 100BaseFX Hub**

Table 282   FastHub 100 Series 100BaseT Hubs Summary of Features

Characteristics	Description
Placement	Desktop 19-inch rack-mount hardware included (FastHub 112F only)
Configuration guidelines	1010 ft (308 m) maximum cable distance between any two end stations with one FastHub 100 series hub in the path using a combination of UTP and fiber cabling 672 ft (205 m) maximum cable distance between any two end stations with two FastHub 100 series hubs in the path using UTP wiring only 708 ft (216 m) maximum cable distance between any two end stations with two FastHub 100 series hubs in the path using a combination of UTP and fiber cabling 328 ft (100 m) maximum cable distance between 100BaseTX port and an end node using UTP wiring only
Indicators	Per-port LEDs for Link Integrity, Receive Activity, and Disabled Activity meter (FastHub 112F only) and Collision LED for gauging network load Power LED for AC operation status
Cabling requirements	100BaseTX ports: integrated 100BaseTX media interface for use with two-pair Category 5 UTP cabling; Standard RJ-45 connectors 100BaseFX ports: Integrated 100BaseFX media interface for use with 62.5/125- or 50/125-micron multimode fiber-optic cabling; standard ST connectors
Dimensions (H x W x D)	FastHub 104T and 108T: 2 x 6.2 x 9.4" (5.1 x 15.7 x 23.9 cm) FastHub 112F: 5.25 x 19 x 12.28" (13.34 x 48.26 x 31.19 cm)
Weight	FastHub 104T and 108T: 4 lbs (1.8 kg) FastHub 112F: 16 lbs (7.26 kg)
Agency approvals	UL 1950 CE CSA-C22.2, LR100902 TUV EN60950 FCC Class A EN55022A Vfg 243

**Table 283   FastHub 100 Series 100BaseT Hubs
Environmental Specifications**

Description	Specification

Power requirements	FastHub 104T and FastHub 108T:
	    Power consumption: 15W (FastHub 104T); 25W (FastHub 108T)
	    Input voltage/frequency: 90 to 240 volts, 50 to 60 Hz
	FastHub 112F:
	    Power consumption: 60W
	    Input voltage/frequency: 90 to 250 volts, 50 to 60 Hz

Operating temperature range	32 to 104 F (0 to 40 C)
Storage temperature	-22 to 194 (-30 to 90 C)
Operating relative humidity	5 to 80% noncondensing
Storage relative humidity	5 to 95% noncondensing
Operating altitude	Up to 10,000' (3048 m)
Storage altitude	Up to 30,000' (9146 m)

Standard Features

The FastHub 100 series hubs support the following standard features:

- 100-Mbps data rate supports high-bandwidth requirements

- Compatible with IEEE 802.3u standard for interoperability with other 100BaseT products

- 100BaseT Class II hub design increases network topology flexibility

- Extensive application-specific integrated circuit (ASIC) integration ensures reliability, affordability, and exceptional performance

- LED display offers convenient visual management

- No software to load or configure ensures simple, trouble-free installation and operation

- Three models for configuration flexibility:

    — FastHub 104T

    — FastHub 108T

    — FastHub 112F

Supported Applications

FastHub 100 series hubs can function in a wide variety of applications, as follows:

- Power workgroups and users

  FastHub 100 series hubs can be attached to a 100BaseT port on a Cisco 7000, Cisco 7500, Cisco 4700, or Cisco 4500 series router or Catalyst 1900, Catalyst 2820, Catalyst 2900, Catalyst 3000, or Catalyst 5000 series switch to accommodate power workgroups or a power user with multiple workstations.

- Server farms

  With FastHub 100 series hubs, you can affordably build decentralized or centralized high-performance server farms attached to Cisco routers or Catalyst switches. A range of densities (4, 8, or 12 ports) is available to support the appropriate number of servers, with UTP or fiber media options to match installed cabling and distance requirements.

- High-speed local backbone

  FastHub 100 series hubs can be used to aggregate Catalyst 1900, 2820, or 3000 switches and connect to a 100BaseT port on a Cisco router or Catalyst 5000 switch. A FastHub 100 series can be connected to each Cisco router, or Catalyst 5000 port to aggregate up to 11 Catalyst switches. All interswitch traffic uses the 100BaseT local backbone provided by the FastHub 100 series hub.

Product Numbers

Table 284 provides product numbers for the FastHub 100 series hubs.

Table 284   FastHub 100 Series 100BaseT Hubs Product Numbers

Description	Product Number
FastHub 104T (4-port 100BaseTX, unmanaged)	WS-C104
FastHub 108T (8-port 100BaseTX, unmanaged)	WS-C108
FastHub 112F (12-port 100BaseFX, unmanaged)	WS-C112F
FastHub 100 series SMARTnet maintenance	CON-SNT-WS-C1XX
Documentation	See the chapter "Documentation."