AT-FH800 Series, Stackable Manageable 10/100Mbps Fast Ethernet Hubs

AT-FH812u, 12 port stackable manageable Fast Ethernet hub

AT-FH812uSW, 12 port stackable manageable Fast Ethernet hub with switch module

AT-FH824u, 24 port stackable manageable Fast Ethernet hub

AT-FH824uSW, 24 port stackable manageable Fast Ethernet hub with switch module

KEY FEATURES

**IEEE 802.3/802.3u
compliant 10T/100BTX
Class II repeater**

**12 or 24 autosensing RJ-45
10/100Mbps Ethernet ports**

**Stacking supports
up to 144 ports**

**MDI/MDIX uplink port
for hub cascading
or switch connection**

**Optional management
module for Web
based management,
SNMP, RMON and
local/stack management**

**Internal switching module
(standard on "SW" models)
allows one hub to switch
all 10Mbps and 100Mbps
in a stack**

**LEDs for hub status
Collisions, Link/Activity,
Transmission Speed
and Partition**

**Internal universal
power supply**

**Interface for
redundant power supply**

3 year warranty

Free technical support

The Allied Telesyn AT-FH812/24u and AT-FH812/24uSW are 12 and 24 port manageable and stackable dual-speed hubs. These hubs provide the flexibility to combine the power of 100Mbps Fast Ethernet with legacy network equipment operating at 10Mbps.

Each AT-FH800 series hub port can independently detect and match the speed of an attached device. By continually sensing the maximum transmission speed, the hubs can deliver a ten fold performance improvement when and where it is needed. This capability offers a versatile strategy for network managers, making NIC and cabling upgrades simpler and less costly, yet fully protecting earlier network equipment investments.

Each hub includes a pair of slots for optional modules allowing maximum flexibility in configuring a network. These slots support optional switching and management modules. The front-panel slots are easy to access allowing the addition or removal of a module without removing the hub from the stack.

The switching module passes traffic between the 10 and 100Mbps repeater buses at Full Duplex speed using the Store-and-Forward process. There are two different switching modules. One switch module has no uplink associated with it, the other provides a distance extender of SC fiberoptic uplink for runs of up to 2 kilometers using Full Duplex speed.

When management is required a management module can be installed. A full complement of management is included with SNMP, Web based management and full nine groups of RMON. With the embedded Web server, it is possible to manage the hub stack from any browser-enabled PC, MAC or UNIX machine.

Up to six AT-FH800 series hubs can be stacked, supporting up to 144 dual-speed ports in a single workgroup. When stacked only one hub with a switching module is needed to allow communication between all 10T and 100TX users across the entire stack.

The AT-FH800 series hubs have an MDI/MDIX uplink port, giving connectivity to an external device such as another hub, without the need for a special cross-over cable. In addition, the operating mode of these ports can be set by management to enforce 10 Mbps, 100 Mbps, or auto-sensing mode.

Network diagnostic LEDs are provided on the front of the AT-FH812 and AT-FH824 hubs to simplify installation, network troubleshooting and fault isolation. LEDs are associated with each 10/100Mbps port to monitor status, speed and operation at all times.

Each hub includes a connector for an optional redundant power unit. The redundant power unit can supply as many as five hubs in the event of an AC loss or failure of an internal power supply.

Allied Telesyn
Simply connecting the (IP) world

STATUS INDICATORS

Front Panel Central:

Power	Green indicates power is on
Switch	ON indicates switch module active
	OFF indicates switch module not installed or in a slave mode in a stack.

Front Panel Per Segment (10M/100M):

Collision	Flashing indicates that a collision is detected within the segment
Switch Activity	Flashing indicates traffic on segment

Front Panel Per Port:

Partition	Flashing indicates port partitioned
Link/Speed	Steady yellow for 10Mbps link established. Steady green indicates 100Mbps link established.

Agent Module:

Active	Agent is active when ON
	Flashing indicates power-on self-test

TWISTED PAIR PORTS

Station Ports:
12 and 24 MDI-X ports with shielded RJ-45 connectors

Uplink Ports:
MDI/MDIX uplink port (RJ-45),
shared with station ports 12 and 24 respectively

Media supported:
Category 5 UTP or Type 5 STP
Category 3,4 or 5 UTP (10 Mbps only)

IEEE Compliance:
802.3 10T Ethernet and 802.3u 100TX
Fast Ethernet (IEEE standard Class II repeater)

INTER-REPEATER BUS

Units connect over the bus act as one repeater. Bus supports stacking up to six units high with included stacking cable.

SWITCH MODULE/AT-FH802u/FH803u

Operating Mode	Filtering, Forwarding and Learning
MAC Address Table	4k maximum addresses
Packet Buffers	1 M shared memory
Address Resolution	Fast hashing scheme

Performance:

Forward/Filtering Rate	14,880pps at 10Mbps
	148,800pps at 100Mbps

AGENT MODULE/AT-FH801u

RMON	Groups 1-9 on select segment
	Groups 1-4 on other segments
MIB	RFC1213, RFC2108, RFC1643, RFC1757, ATI's private MIB
System Configuration	Local console, modem to serial port, Web-based, Telnet, TFTP for software download

POWER CHARACTERISTICS

Voltage	100-240vAC, 50/60Hz
Power Consumption	50W

ENVIRONMENTAL SPECIFICATIONS

Operating Temp.	0°C to 40° C
Storage Temp.	-30°C to 60° C
Relative Humidity	5% to 95% noncondensing

PHYSICAL CHARACTERISTICS

Dimensions	44.0cm x 20.0cm x 6.5cm (17.3″ x 7.9″ x 2.5″)

Shipping Weight:	
AT-FH812u	4.2kg (9.2lbs.)
AT-FH824u	4.2kg (9.2lbs.)
AT-FH812uSW	4.45kg (9.8lbs.)
AT-FH824uSW	4.45kg (9.8lbs.)
AT-FH805u	255g (9oz.)
AT-FH806u	255g (9oz.)
AT-FH807u	255g (9oz.)
AT-FH808u	255g (9oz.)

ELECTRICAL/MECHANICAL APPROVALS

EMI	FCC Class A, EN55022 Class A VCCI Class 1
Safety	UL, CSA, TUV-GS
CE	Approved

Product Range: Allied Telesyn's long-term focus on price/performance networking has made it a market-leading provider of LAN, WAN and MAN network systems. Advanced Layer 3 switch and router technology perfectly complements its traditional Layer 2 switch, hub, adapter card and media conversion capabilities.

USA Corporate Headquarters: 19800 North Creek Pkwy, Suite 200, Bothell, WA 98011, USA • Tel: 800.424.4284 • Fax: 425.481.3895

European Headquarters: Kon. Wilhelminaplein 13/2.10.03, 1062 HH Amsterdam, Netherlands • Tel: +31 20-346 07 00 • Fax: +31 20-346 07 10

www.alliedtelesyn.com

Allied Telesyn
Simply connecting the (IP) world