

- Provides 6 10Base-FL ports with ST, SC or SMA connectors
- Modular backbone port with optional Twisted Pair (10Base-T), Thinnet (10Base-2), AUI (10Base-5), or Fiber Optic (10Base-FL) appliqués
- Standalone, 19-inch rack or chassis mounted
- Three types of network management: SNMP, ASYNC ASCII terminal port (Omega Local) and Telnet (Omega Remote)
- SNMP redundancy
- Software upgrade capability through firmware cassette or in-band downloading
- Hot-swapping of units in 3600 chassis system
- Comprehensive diagnostic LED support
- Lifetime warranty*

*One year on power and supply fan



3600 Series Managed 10Base-FL Hub

AT-3606F

6-PORT 10BASE-FL HUB WITH SNMP MANAGEMENT (ST, SC OR SMA)

Allied Telesyn's 3600 Family provides an affordable managed stackable hub solution which is easy to use and truly scalable. The AT-3606F hub serves as a single building block for both standalone and chassis configurations. This allows networks to be easily built and reconfigured at minimum expense.

Each AT-3606F comes with 6 10Base-FL ports (ST, SC, or SMA) plus a modular port (pre-configured with AUI appliqués) that provides backbone or inter-repeater connectivity through multiple types of cable media. Optional backbone appliqués include support for Unshielded Twisted Pair (10Base-FL) and Thinnet (10Base-2.)

The AT-3606F is fully self-contained with internal universal power supply, advanced IEEE 802.3/Ethernet repeater functionality, diagnostic LED support and comprehensive network management capabilities. For maximum functionality and reliability, it is based on an Allied Telesyn-developed ASIC.

All 3600 Series managed hubs are standard-equipped with three types of network management agents. For inexpensive local management, Allied Telesyn network management support is provided through an ASYNC terminal port (Omega Local.) An Omega Remote agent is also

included. This network management interface is utilized in an in-band f through a Telnet session. Out-of-b connection to any remote hub is p through Omega Local. In addition AT-3606F supports industry standa SNMP network management static through the SNMP agent. A single ment concentrator with up to 48 p can be configured when up to eigh AT-3606F hubs are mounted into a chassis system. In this configuration AT-3606F hubs take on different pe ities. The unit in slot one becomes SNMP Master unit, slot two provid SNMP Backup unit and the remain slots create SNMP Slave units. Thr this process, maximum network rel is provided should the SNMP Mast fail. Any of the units can be hot-sw for fault tracing or reconfiguration concentrator without network down

A firmware port is provided, enabling upgrades of the AT-3606F software. When a firmware cassette is inserted the unit, the new firmware is copied the unit's on-board Flash EEPROM time of power up. In addition, any AT-3606F unit can be upgraded over network with new software from an other 3600 Series managed hub, with user impact on the network.



AT-3606F

STATUS INDICATORS

Back Panel:

Power Green indicates power is on Master Amber indicates the unit is acting

as Master agent

Fault Red indicates general fault

condition

Front Panel Central:

Power Green indicates power is on Master Amber indicates the unit is acting

as Master agent

Red indicates general fault Fault

condition

Front Panel Per Port:

No Light Indicates no link

Steady Green

Indicates port OK (good link and

port not partitioned)

Indicates link OK and port is Flashing Amber

partitioned

PACKET TRANSMISSION CHARACTERISTICS

Delay Times:

(Any segment in to all other segments out)

Backbone port to fiber

Start of Packet 900 ns Maximum Collision to Jam 900 ns Maximum Fiber to fiber

Start of Packet 1400 ns Maximum Collision to Jam 1400 ns Maximum

Preamble:

Input 32 bits Minimum including SFD Output 64 bits including SFD (last 2 bits are 1,1)

Jam Output:

A pattern of 1,0 is sent to all segments (except receive port) when a collision is detected.

Packet Fragment Extension:

96 bits including preamble. Packet fragments are extended using the 1,0 pattern.

Auto Partitioning/Reconnection:

Port partitioning occurs after 32 consecutive collisions or if collision has a duration of more than 1 ms. Reconnection occurs after 512 bits are received or transmitted on the partitioned port without collision (IEEE standard algorithm) or after data is transmitted without collision for 512 bits (alternate algorithm.)

Jabber Lock-Up Protection:

For packets that exceed 64k bit, packet output is interrupted for 96 bit times.

STANDARD 3600 SOFTWARE

SNMP Agent:

Compliant with MIB II and the SNMP Repeater MIB (hub MIB.)

Local ASCII Terminal Agent (Omega Local):

Allied Telesyn ASCII terminal-based management agent via RS-232 ASYNC port with DB-9 connector.

Telnet (Omega Remote):

Telnet terminal emulation over Ethernet.

BACKBONE PORT APPLIQUÉS

Available Modules:

(See separate datasheet on accessories):

10Base-T UTP appliqué 10Base-2 BNC appliqué 10Base-5 AUI appliqué (pre-installed) 10Base-FL Fiber Optic appliqué (ST, SC or SMA)

INTER-REPEATER BUS

Allied Telesyn LAN and Management Bus used in conjunction with the 3600 Series chassis (passive backplane system.) Units connect over the bus as

SOFTWARE DOWNLOADING

- 1 Through insertion of a firmware module located on the back panel of the AT-3606F.
- 2 Downloading from other AT-3600 units on the same LAN (within the same IP domain) initiated from terminal menus.

FIBER OPTIC INTERFACE

Typical	Worst
830 nm	±20 nm
-30 dBm	
170 μW (-7.6 dBm)	150 μW (-8.2 dBm)
-12.0 dBm	-15.0 dBm
-6.5 dBm	-9.5 dBm
-16.5 dBm	-19.5 dBm
	830 nm -30 dBm 170 μW (-7.6 dBm) -12.0 dBm -6.5 dBm

POWER CHARACTERISTICS

Input Voltage (Auto Ranging):

100 to 120 VAC, 50/60 Hz, 1.0 A 200 to 240 VAC, 50/60 Hz, 0.5 A

Power:

Consumption 40 W

Isolation 1500 VAC (1 min)

PHYSICAL CHARACTERISTICS

Dimensions: 43.2 cm x 25.2 cm x 4.6 cm

(17.0 in x 9.9 in x 1.8 in)

Weight:

4.8 kg (10 lb 12 oz)

Temperature:

Operating 0° to 50° C Storage -20° to 60° C

Relative Humidity: 5% to 80% noncondensing

Electrical/Mochanical Approvals:

EMI FCC Class A

Safety

UL, TUV-GS, CSA, IEC 825-1

Class 1

CE Approved

Specifications

ORDERING INFORMATION

Hub	
AT-3606F/ST	6-port managed 10Base-FL (ST) with AUI appliqué
AT-3606F/SC	6-port managed 10Base-FL (SC) with AUI appliqué
AT-3606F/SM	6-port managed 10Base-FL (SMA) with AUI appliqué
Options	
AT-A1	10Base-FL appliqué for AT-3606F (SMA)
AT-A2	10Base-FL appliqué for AT-3606F (SC)
AT-A3	10Base-FL appliqué for AT-3606F (ST)
AT-A8	10Base-2 appliqué for
	AT-3606F/ST AT-3606F/SC AT-3606F/SM Options AT-A1 AT-A2 AT-A3

AT-3606F (BNC)

AT-3606F (RJ45)

10Base-T appliqué for

AT-A9

hub

hub

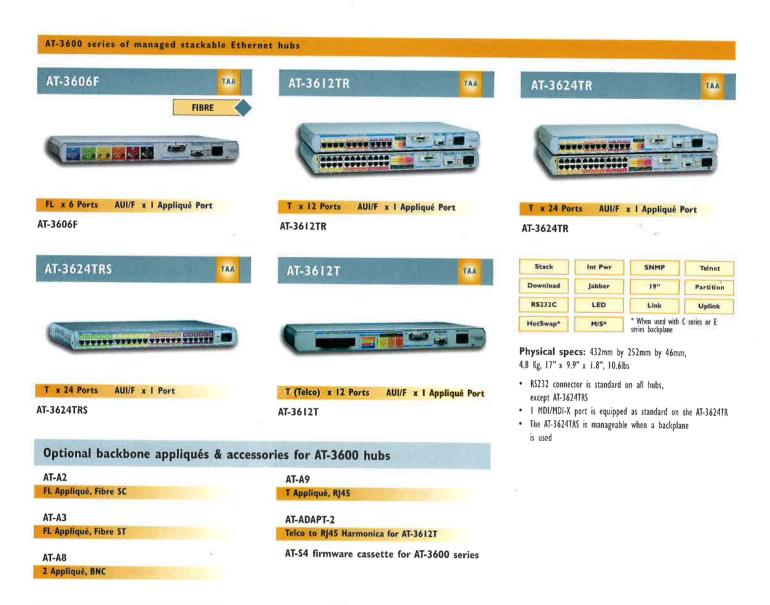
hub

Managed

Managed Ethernet Hubs

AT-3600 Series of Managed Ethernet Hubs

A full family of affordable stackable managed hubs with multiple media options.



AT-3600 series bracket and chassis systems

AT-36C1 AT-RKMT5	1-slot 19" bracket
AT-36C2	2-slot 19" bracket with snap-on shared backplane
AT-36C3	3-slot 19" bracket with snap-on shared backplane
AT-36C4	4-slot 19" bracket with integrated shared backplane
AT-36C8	8-slot 19" rack chassiswith integrated shared backplane
AT-C36RG4-xRI	4-slot 19" rack chassis with integrated segmented backplane in conjunction with an Ethernet switch $x = 1$ for US power cord, $x = 2$ for no power cord
AT-C36RG8-xR2	8-slot 19" rack chassis with integrated segmented backplane in conjunction with an Ethernet switch $x = 1$ for US power cord, $x = 2$ for no power cord

AT-36E1	I-slot tower-type floor stand
AT-36E2	2-slot desktop bracket with snap-on shared backplane
AT-36E3	3-slot desktop bracket with snap-on shared backplane
AT-36E4	4-slot desktop chassis with integrated shared backglane
AT-36E8	8-slot desktop chassis with integrated shared backplane
AT-C36DG4-xRI	4-slot desktop chassis with integrated segmented backplane in conjunction with an Ethernet switch $x = 1$ for US power cord, $x = 2$ for no power cord
AT-C36DG8-xR2	8-slot desktop chassis with integrated segmented backplane in conjunction with an Ethernet switch $x = 1$ for US power cord, $x = 2$ for no power cord