

AT-6870, AT-6875

XSOFTWARE FEATURES

Compliant with IEEE 802.1 STP specifications
Dynamic forwarding table creation
SNMP network management agent
Power-on diagnostics

HARDWARE FEATURES

Networks	IEEE 802.3 10Base-5 (thicknet) compliant Ethernet Version 1.0 and 2.0 compatible IEEE 802.3 10Base-2 (Thinnet) compliant
Memory	512 K EPROM 128K Frame Buffer RAM 32 bytes EEPROM 512K Systems RAM

PERFORMANCE

Forwarding Rate	12,500 PPS
Filtering Rate	25,000 PPS

POWER CHARACTERISTICS

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

PHYSICAL CHARACTERISTICS

Dimensions: 43.2 cm x 24.7 cm x 6.6 cm
(17.0 in x 9.7 in x 2.6 in)

Weight: 4.4 kg (9.0 lb 12.2 oz)

Temperature:

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

Relative Humidity: 5% to 80% noncondensing

Electrical/Mechanical Approvals:

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

Specifications

ORDERING INFORMATION

Part Number	Description
AT-6870	Learning Bridge
AT-6875	Managed Learning Bridge
AT-RKMT-2	Rack mount shelf kit for 19-inch rack
AT-RKMT-3	Rack mount "ears" kit for 19-inch rack
AT-BRKT-12	Cable strain relief with AT-RKMT-3
AT-BRKT-13	Cable strain relief

AT-TS95TR

STATUS INDICATORS

Front Panel

Ethernet Ports	Link, Receive and Collision LEDs
ATM Port	On-line, sync, LOS, alarms (red, yellow and blue) LEDs
Network Load	10 segment LEDs
Power Supply	Present and fail LEDs
ATM Media Interface	Fail, sync, LOS LEDs
Timing	Internal and loop LEDs

UTP INTERFACE (IEEE 802.3 10BASE-T)

Transmitter:	Typical	Range
Peak Differential Signal Amplitude	2.5 V	2.2 to 2.8 V
Transmitter Jitter	±3.5 ns	
Harmonics Content		>27dB below fundamental
Common Mode Output Voltage	<50 mV	
Silence Voltage	0	±50 mV
Link Test Pulse	100 ns	60 to 130 ns
Output Impedance	100 Ω	85 to 115 Ω
UTP Length	100 m	

Receiver:

Receiver Threshold	-400 mV	-300 to -520 mV
Differential Noise Rejection	300 mV	

ATM OC-3C/STM-1 INTERFACE

Transmitter:

Source	MMF LED
Line Code	OC-3/STM-1 scrambled, NRZ
Fiber Type	Multimode
Connector Type	SC Duplex

	Minimum	Typical	Range
Output Optical Power	-18.5 dBm	-14 dBm	
Center Wavelength	1260 nm	1310 nm	1360 nm
Optical Rise Time	0.6 ns	1.0 ns	3.0 ns
Systematic Jitter	0.04 ns p-p	0.7 ns p-p	
Random Jitter	0 ns	0.52 ns p-p	

Receiver:

Detector Type	PIN-Bipolar
Line Code	Scrambled, NRZ
Fiber Type	Multimode
Connector Type	SC Duplex

	Minimum	Typical	Range
Input Optical Power	-30 dBm	-14 dBm	
Operating Wavelength	1260 nm	1360 nm	

SOFTWARE DOWNLOADING

- 1 Using BOOTP/TFTP over LAN.
- 2 Plug-in AT-S9 firmware cassette in rear panel.

SEGMENTED BUS

Allied Telesyn LAN and Management Bus used in conjunction with the TurboStack chassis (passive backplane.) Hubs are connected to the switch via the backplane and each is provided dedicated bandwidth.

MANAGEMENT

SNMP Agent:

Compliant with the following:
SNMP MIB2 (RFC 1213 and 1573)
Ethernet MIB (RFC 1398)
Partial Bridge MIB (RFC 1493)
ATM ILMI
LEC MIB

Allied Telesyn Private MIB Extensions

Local ASCII Terminal Agent (Omega Local):

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

Telnet (Omega Remote):

Telnet terminal emulation over Ethernet.

INTERNETWORKING

LAN Emulation Client:

Compliant with ATM Forum 1.0 specifications

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	115 W
Isolation	1500 VAC (1 min)

PHYSICAL CHARACTERISTICS

Dimensions: 43.2 cm x 25.2 cm x 8.7 cm
(17.0 in x 9.9 in x 3.4 in)

Weight: 4.15 kg (9 lb 1 oz)

Temperature:

Operating	0° to 40° C
Storage	-20° to 50° C

Relative Humidity: 5% to 80% noncondensing

Electrical/Mechanical Approvals

EMI	FCC, CDOC
Safety	UL, TUV-GS, CSA
CE	Approved

Specifications

ORDERING INFORMATION

Part Number	Description
AT-TS95TR-XYZ	8-Port Ethernet/ATM switching hub with ATM media slot
AT-TS4002	ATM 155 Mb/s OC-3c/STM-1 multimode optical media card
AT-TS4003	ATM 155 Mb/s OC-3c/STM-1 twisted pair media card
AT-TS4005	ATM 155 Mb/s OC-3c/STM-1 single mode optical media card

Options

Where X	1 for US style power cord
	2 for international, no cord
Where Y	1 for single power supply
Where Z	ATM preconfigured option
	0 for empty ATM slot
	2 for ATM OC-3c/STM-1 multimode optics

LED INDICATORS

Transmit	Indicates packet is being transmitted to the media
Receive	Indicates packet is being received from the media
Test	Indicates SQE test signal is present
Collision	Indicates a collision is detected

ELECTRICAL CHARACTERISTICS

Rate	10 Mbps/CSMA/CD
Cable Interface:	
Impedance	78 Ω \pm 1%
Impedance	78 Ω \pm 5 Ω
Output Voltage	700 mV (Typical)

Cable Interface:

Resistance	>100K Ω
Capacitance	<2 pF
Output Voltage	-0.9 to 1.1 V
Output Voltage	\pm 870 mV (Typical)

	Typical	Worst
Time	25 ns	\pm 5 ns
Delay	30 ns	
	2 bit	
Time	26 ms	
Time	419 ms	
Time		

Collision:

Delay	50 ns
	5 bit

Detection

	900 ns
Time	600 to 1000 ns
	600 to 1000 ns

POWER CHARACTERISTICS
(FROM DTE)

Supply Voltage(Station side):

11.4 to 15.75 V

Power:

Consumption 400 mA (Maximum) at 12 V \pm 5%

Isolation:

Impedance 250K Ω (Minimum)

Breakdown Voltage 2000 V

PHYSICAL CHARACTERISTICS

Dimensions: 11.2 cm x 5.1 cm x 3.1 cm
(4.4 in x 2.0 in x 1.2 in)

Weight (less connector):

369 g (13.0 oz)

Temperature:

Operating 0° to 50° C

Storage -20° to 60° C

Relative Humidity: 5% to 80% noncondensing

Transceiver Cable Interface:

15-pin male subminiature-D connector with locking posts

Electrical/Mechanical Approvals:

EMI FCC Class A, TUV, Vfg-B
Safety UL, CSA, TUV-GS

Specifications

ORDERING INFORMATION

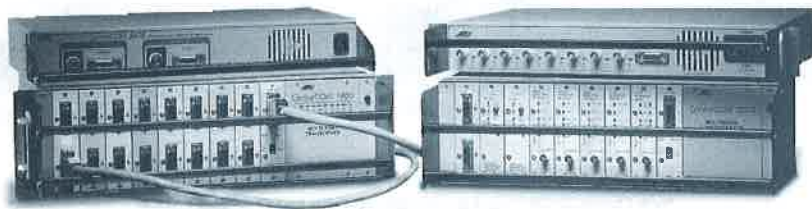
Part Number	Cable Type	Connector Type
AT-204	Thin Coax	One BNC backbone connector
AT-205		No backbone connector
AT-206	Thick Coax	One thick coaxial stinger-type connector
AT-207	Thin Coax	One BNC-T connector
AT-208	Thick Coax	One thick coaxial N-Series connector
AT-209		Internally terminated transceiver with cover plate

Accessories

AT-04	10Base-2 BNC connector
AT-06	10Base-5 vampire connector
AT-07	10Base-2 BNC-T connector
AT-08	10Base-5 N-Series connector
AT-1220-K	Vampire connector installation tool kit
AT-BRKT0A	Mounting bracket with strain relief
AT-BRKT0B	Mounting bracket without strain relief

CentreCOM Bracket Assemblies

- Brackets available for both rack-mounted and table-top units
- Ensures cable connection reliability and integrity
- Quick and easy mounting procedure



Cable Strain Relief Brackets shown above: AT-BRKT-12, AT-BRKT-13

AT-BRKT

CABLE STRAIN RELIEF BRACKETS

With the CentreCOM Cable Strain Relief Brackets, users and installers of Allied Telesyn products can easily ensure the integrity of their cable connections. Bracket assemblies are available for both rack mounted and free-standing table-top units.

CentreCOM Cable Strain Relief Brackets take the pressure off networking cables by supporting them as they attach to the unit. Strain relief increases the overall reliability of the network by decreasing the likelihood of accidental disconnection or damage to the cables.

Part Number

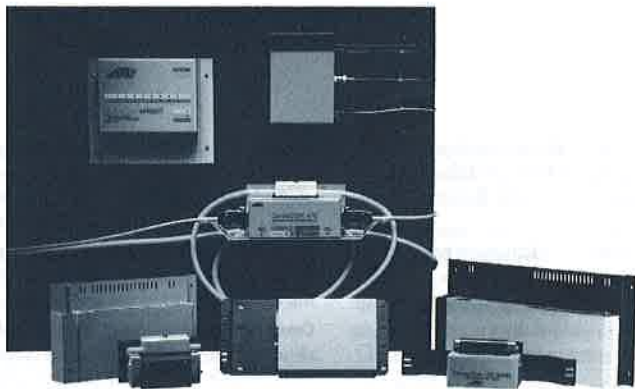
AT-BRKT-12

Accessories

Cable strain relief bracket for AT-810/3000 Series/ (used with rack mount option RKMT-3)

AT-BRKT-13

Cable strain relief bracket for AT-810/3000 Series/ (no rack mount required)



Mounting Brackets shown above: AT-BRKT-16, AT-BRKT-17, AT-BRKT-15, AT-BRKT-7A, AT-BRKT-5A, AT-BRKT-0B

AT-BRKT

WALL MOUNTING BRACKETS

The CentreCOM Mounting Brackets provide users and installers of Allied Telesyn transceivers and micro repeaters with an easy tool to mount the units on walls, partitions or ceilings. Proper installation improves network reliability and integrity, as well as providing heat-sinking properties for the transceiver and repeater chassis.

The bracket simply provides the screws to attach the bracket to the wall with a screwdriver.

To complete installation, convenient strain relief is provided. The cables are routed through a cable channel. The "Service Loop" is coiled around the bracket and then is secured with the furnished cable ties. In addition, this flexible mounting scheme provides the installer with the ability to route and dress the network cabling without violating the minimum bend radius of the cables.

Part Number	Accessories	Part Number	Accessories
AT-BRKT-0A	Mounting bracket with AUI strain relief and "Service Loop" for AT-100/200	AT-BRKT-15	Wall mounting bracket with strain relief for AT-MR410T/MR810T/MR120 Series
AT-BRKT-0B	Mounting bracket with "Service Loop" for AT-100/200	AT-BRKT-16	Wall mounting bracket with strain relief for AT-MR110 Series
AT-BRKT-2B	Mounting bracket for AT-125/126	AT-BRKT-17	Wall mounting bracket with strain relief for AT-MR420T/MR820T
AT-BRKT-5A	Mounting bracket with AUI strain relief and "Service Loop" for AT-150/250	AT-BRKT-18	Wall mounting bracket for AT-3012T/3012TR/3016TR/3024TR/810SL/3004SL/3008SL/3600 Series
AT-BRKT-5B	Mounting bracket for AT-150/250		
AT-BRKT-7A	Mounting bracket with AUI strain relief and "Service Loop" for AT-270/270T/280/440/440T/470/480		
AT-BRKT-7B	Mounting bracket with "Service Loop" for AT-270/270T/280/440/440T/470/480		

CentreCOM Bracket Assemblies

- Provides quick and easy mounting for transceivers and micro repeaters
- Flexible mounting orientation and operation
- Promotes mechanical stability, organization and reliability
- Provides for "Service Loop" as described in IEEE 802.3 specifications