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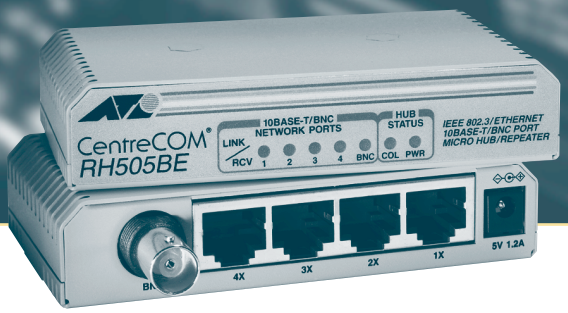
AT-RH505BE

5-Port Micro Hub with external power adapter

AT-RH509BE

9-Port Micro Hub with external power adapter

IEEE 802.3 Compliant/Ethernet compatible



CentreCOM

Micro Hubs

Low-cost Connectivity Solutions

As the market leader in unmanaged hubs, Allied Telesyn excels in delivering highly reliable, low-cost connectivity solutions to its customers. The AT-RH505BE and AT-RH509BE twisted pair micro hubs have been designed specifically to serve small office networks. A single AT-RH505BE and AT-RH509BE hub can create a small network for connecting up to five and nine Personal Computers, respectively. In addition to the twisted pair interfaces (RJ45), a BNC port provides direct attachment to thin coax media, eliminating the need for an external transceiver. The network can be easily expanded by stacking with another hub. With the BNC interface, up to 30 hubs can be interconnected on a single segment, leaving all UTP ports free for use.

IC and Surface Mount Technology (SMT)

The AT-RH505BE and AT-RH509BE utilize the latest IC and Surface Mount Technology (SMT), which increases functionality and reliability. These hubs are very small in size, yet they provide the complete functionality of large hubs including packet regeneration and port partitioning. Each port automatically detects the polarity of the receive pair and reverses should the pair be incorrectly installed. It also includes autopartitioning capabilities, where each port automatically disconnects itself after repeated collisions are detected and automatically reconnects when the error condition is cleared.

Extremely Compact and Easy to Install

The rugged metal case has been developed to accommodate the limited space of a typical small office environment. Extremely compact in size, the AT-RH505BE and AT-RH509BE fit conveniently on the corner of a desk. Both hubs include a velcro kit for flexible desktop and wall placement, eliminating the need for installation tools. The hubs support jabber lock-up protection on all interfaces, preventing transceiver lock-up resulting from packets that exceed the maximum packet length. Network diagnostic LEDs are provided on the front of the AT-RH505BE and AT-RH509BE to simplify installation, network trouble-shooting and fault isolation. An LED is associated with each twisted pair and the thin coax port to monitor status and operation at all times ("Packet Receive" and "Link OK"). Additionally, there are two central LEDs indicating "Collision" and "Power".

Allied Telesyn



Specifications

Status Indicators

Front Panel Central:

Power	Green indicates power is on
Collision	Amber indicates there is a collision detected within the hub

Front Panel Per Port:

No Light	Indicates no link
Steady Green	Indicates that the segment is not partitioned and that there is a valid link
Flashing Green	Indicates packet is being received from the segment

Packet Transmission Characteristics

Delay Times:
(Any port in to all other ports out)

UTP to UTP	
Start of packet	2100 ns Maximum
Collision to Jam	2050 ns Maximum

BNC to UTP

Start of packet	1950 ns Maximum
Collision to Jam	2050 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 ports (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 1ms. 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

Power Characteristics

External Power Adapter:

Voltage	100 to 120 VAC, 50/60 Hz, 0.25 A 200 to 240 VAC, 50/60 Hz, 0.125 A

Power Consumption:

AT-RH505BE	4W Maximum
AT-RH509BE	6 W Maximum

UTP Interface (IEEE 802.3 10BaseT Compliant)

Transmitter:	**Typical**	**Range**
Peak Differential		
Signal Amplitude	2.5V	2.2 to 2.8V
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 ohm	85 to 115 ohm
UTP Length		100 metres
Receiver:		
Receiver Threshold	-400 mV	-300 to -520 mV
Differential Noise Rejection	300 mV	

Coaxial Interface (IEEE 802.3 Compliant)

Transmitter:	**Typical**	**Range**
Input Impedance		>100 kohm
Coaxial Tap Capacitance Input/Output	<6pF	

Voltage:	**Typical**	**Worst**
DC Offset	-.01 V	-.05 to 0 V
AC Offset	1.86 Vp-p	1.2 to 2.4 Vp-p
Transmit Rise/ Fall Time	25 ns	±5 ns

Physical Characteristics

Dimensions:

AT-RH505BE	9.9 cm x 5.4 cm x 2.1 cm (3.9 in x 2.2 in x 0.8 in)
AT-RH509BE	15.8 cm x 5.4 cm x 2.1 cm (6.2 in x 2.2 in x 0.8 in)

Weight:

AT-RH505BE	180 g (6 oz)
AT-RH509BE	270 g (10 oz)

Temperature:

Operating	0° to 40° C
Storage	-20° to 60° C

Relative Humidity: 5% to 80% non-condensing

Electrical/Mechanical Approvals:

EMI	FCC Class A, EN55022 Class A, CE Certified
Safety	UL, CSA, TUV-GS

Ordering Information

Part Number	**Description**
AT-RH505BE-X0	5-port 10BaseT micro hub, 4 RJ45 ports, 1 BNC port
AT-RH509BE-X0	9-port 10BaseT micro hub, 8 RJ45 ports, 1 BNC port
Where X	1 For 100-120 V with U.S. power cord included 3 For 200-240 V with U.K. power cord included 5 For 200-240 V with Central European power cord included

European Offices

United Kingdom
Allied Telesyn International Ltd. 70 Milton Park, Abingdon, Oxon, OX14 4RX
Tel: +44 (0)1235 442500, Fax: +44 (0)1235 442590, Freephone: 0800 204040

Germany
Allied Telesyn International GmbH, Wittestrasse 30N, 13509 Berlin
Tel: +49 30435 9000, Fax: +49 30435 70650, Toll Free: 00 800 255 43310

Germany - South
Allied Telesyn International GmbH, Geschäftsstelle Süd, Gute Änger 13, 85356 Freising
Tel: +49 8161 99 060, Fax: +49 8161 99 0622

East European Office
Allied Telesyn International GmbH, Fleschgasse 32/6 - 1130, Wien, Austria
Tel: +43 1 8762441, Fax: +43 1 8762572

European Headquarters
Allied Telesyn International BV, Kon. Wilhelminaplein 13/2.10.03, 1062 HH Amsterdam
Tel: +31 20-346.07.00, Fax: +31 20-346.07.10

France
Allied Telesyn International S.A. 6, Avenue des Andes, Bâtiment 5, Z.A. de Courtaboeuf, 91952 Les Ulis Cedex
Tel: +33 01 60 92 15 25, Fax: +33 01 69 28 37 49

Belgium
Allied Telesyn International, Office Nr 1.11, Innovatie en Incubatiecentrum Brussels NV Researchpark, Kranenberg 6 1731 Zellik
Tel: +32 2 481 60 68, Fax: +32 2 463 17 06

Italy
Allied Telesyn International Srl, Via Anna Kuliscioff 31, 20152 Milano
Tel: +39 0241 6047, Fax: +39 0241 9282

Spain
Allied Telesyn International Srl, Representative Office, Plaza de España, 18-4°-Ofic. 3 28008 Madrid
Tel: +34 91 559 1055, Fax: +34 91 559 2644

Website: www.alliedtelesyn.com

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