



UPLINK MODULES

Gigabit and Fast Ethernet Uplink Modules

AT-A35SX/SC

1 x 1000SX (SC) Gigabit fiber

AT-A35LX/SC

1 x 1000LX (SC) Gigabit fiber

AT-A39/T

1 x 10/100/1000T (RJ-45) Gigabit copper

AT-A40/SC

1 x 100FX (SC) multimode fiber

AT-A40/MT

1 x 100FX (MT) multimode fiber

AT-A41/SC

1 x 100FX (SC) singlemode fiber

AT-A41/MT

1 x 100FX (MT) singlemode fiber

AT-A42

1 x Unpopulated GBIC module

Uplink Flexibility

Uplink modules provide a flexible range of interface options, including Gigabit copper, Fast Ethernet fiber, and Gigabit fiber. This flexibility allows Rapier L3 switches to span a wide variety of network topologies and physical media. Uplink modules can be changed or replaced to meet changing network requirements, reducing backup inventory costs.

Model Compatibility

Uplink Module	Rapier	Rapier G6 Series	Rapier i Series	8700XL
AT-A35SX/SC	Yes	Yes	Yes	Yes
AT-A35LX/SC	Yes	Yes	Yes	Yes
AT-A39/T	Yes ¹	Yes	Yes	Yes
AT-A40/SC	No	Yes	Yes	Yes
AT-A40/MT	No	Yes	Yes	Yes
AT-A41/SC	No	Yes	Yes	Yes
AT-A41/MT	No	Yes	Yes	Yes
AT-A42	Yes	Yes	Yes	Yes

1. Does not offer auto-negotiation, operates at 1000T only

Technical Specifications

Regulatory Standards

AT-A35SX/SC, AT-A35LX/SC and AT-A39/T
EMC EN55022 class A, FCC class A, and VCCI class A

Immunity EN55024

Safety Listing - UL, cUL, TUV

Standards - UL 60950, CAN/CSA-C22.2 NO. 60950-00, EN60950

AT-A40/SC, AT-A40/MT, AT-A41/SC, AT-A41/MT and AT-A42/GBIC

EMC EN55022 class A, FCC class A, and VCCI class A

Immunity EN55024

Safety Listing - UL, cUL, TUV

Standards - UL 60950, CAN/CSA-C22.2 NO. 60950-00, EN60950

Environmental Specifications

Operating Temp: 0°C to 40°C (32°F to 104°F)

Storage Temp: -25°C to 70°C (-13°F to 158°F)

Relative Humidity: 5 to 95% non-condensing

Key Features

- Gigabit fiber
- Gigabit fiber long haul
- Auto-negotiating
- Gigabit copper
- Fast Ethernet fiber (single-mode fiber and multi-mode fiber)
- Flexible, hot-swappable GBIC
- Interoperable with Rapier, Rapier i, Rapier G6, Rapier G6F & 8700XL switches
- LED status indicators
- Compact size

Ordering Information

AT-A35SX/SC

1 x 1000SX (SC) Gigabit fiber

Order information: 990-001086-00 (RoHS Compliant)

AT-A35LX/SC

1 x 1000LX (SC) Gigabit fiber

Order information: 990-001091-00 (RoHS Compliant)

AT-A39/T

1 x 10/100/1000T (RJ-45) Gigabit copper

Order information: 990-11345-00 (Not RoHS Compliant)

AT-A40/SC

1 x 100FX (SC) multimode fiber

Order information: 990-11920-00 (Not RoHS Compliant)

AT-A40/MT

1 x 100FX (MT) multimode fiber

Order information: 990-11921-00 (Not RoHS Compliant)

AT-A41/SC

1 x 100FX (SC) singlemode fiber

Order information: 990-11922-00 (Not RoHS Compliant)

AT-A41/MT

1 x 100FX (MT) singlemode fiber

Order information: 990-11923-00 (Not RoHS Compliant)

AT-A42

1 x Unpopulated GBIC module

Order information: 990-11092-00 (RoHS Compliant)

UPLINK MODULES | Gigabit and Fast Ethernet Uplink Modules

Interface Summary

Model	Port	Connector	Cable Type ¹	Max Cable Length
AT-A35SX/SC	100SX	SC	50/125 micron, multimode fiber 62.5/125 micron, multimode fiber	550m (1,804ft) ² 275m (902ft) ³
AT-A35LX/SC	100LX	SC	9/125 micron, singlemode fiber 50/125 or 62.5/125 micron multimode fiber	3km (1.8mi) increasing to 10km (6mi) if linking two 100LX models 550m (1804ft) ²
AT-A39/T	10/100/1000T	RJ-45	CAT5 CAT5E	100 to 150m (328 to 492ft) 200m (656ft)
AT-A40/SC	100FX (multimode fiber, 1300nM)	SC	50/125 or 62.5/125 micron multimode fiber	2km
AT-A40/MT	100FX (multimode fiber, 1300nM)	MT-RJ	50/125 or 62.5/125 micron multimode fiber	2km
AT-A41/SC	100FX (singlemode fiber, 1300nM)	SC	9/125 micron, singlemode fiber	15km
AT-A41/MT	100FX (singlemode fiber, 1300nM)	MT-RJ	9/125 micron singlemode fiber	15km
AT-A42	1000X	Varies per GBIC	Refer to GBIC documentation	Refer to GBIC documentation

1. Refer to the IEEE 802.3 standards for further cable information.

2. Assumes a fiber optic cable rating of 500 Mhz/Km. (Maximum cable length is 500m at a cable rating of 400 Mhz/Km)

3. Assumes a fiber optic cable rating of 200 Mhz/Km. (Maximum cable length is 220m at a cable rating of 160 Mhz/Km)

4. Early versions of the AT-A39/T operate at 1000Mbps only. 10/100/1000Mbps operation is available only if the AT-A39/T Uplink Module is installed in a Rapier G6, Rapier G6F, Rapier i or AT-8700XL model, otherwise operation is fixed at 1000Mbps.

Model	Singlemode / Multimode	Wavelength	Tx Power (dBm)	Sensitivity (dBm)	Saturation (dBm)
AT-A35SX/SC	multimode fiber	850	-4 to -9.5	-12.5 @ 62.5uM, -13.5 @ 50uM	0
AT-A35LX/SC	singlemode fiber multimode fiber multimode fiber	1310	-3 to -9.5 @ 9uM -3 to -11.5 @ 62.5uM -3 to -11.5 @ 50uM	-20	-3
AT-A40/SC	multimode fiber	1310	-14 to -19 @ 62.5uM -14 to -22.5 @ 50uM	-34.5	-14
AT-A40/MT	multimode fiber	1310	-14 to -19 @ 62.5uM -14 to -22.5 @ 50uM	-34.5	-14
AT-A41/SC	singlemode fiber	1310	-14 to -20	-31	-8
AT-A41/MT	singlemode fiber	1310	-14 to -20	-31	-8

USA Headquarters | 19800 North Creek Parkway | Suite 200 | Bothell | WA 98011 | USA | T: +1 800 424 4284 | F: +1 425 481 3895

European Headquarters | Via Motta 24 | 6830 Chiasso | Switzerland | T: +41 91 69769.00 | F: +41 91 69769.11

Asia-Pacific Headquarters | 11 Tai Seng Link | Singapore | 534182 | T: +65 6383 3832 | F: +65 6383 3830

© 2006 Allied Telesis Inc. All rights reserved. Information in this document is subject to change without notice. All company names, logos, and product designs that are trademarks or registered trademarks are the property of their respective owners. 617-00458-00 Rev.D