



## Rapier Series Uplink Modules

### Gigabit & Fast Ethernet

#### AT-A35/SX

1 x Gigabit fiber uplink SC connector

#### AT-A35/LX

1 x long haul Gigabit fiber uplink SC connector

#### AT-A39/T

1 x auto-negotiating Gigabit copper uplink RJ-45 connector

#### AT-A40/SC

Fast Ethernet multimode fiber uplink, SC connector

#### AT-A40/MT

Fast Ethernet multimode fiber uplink, MT connector

#### AT-A41/SC

Fast Ethernet singlemode fiber uplink, SC connector

#### AT-A41/MT

Fast Ethernet singlemode fiber, MT connector

#### AT-A42/GBIC

Uplink module with 1 GBIC bay

#### 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

|             | Rapier           | Rapier i | Rapier G | Rapier GF | 8700XL |
|-------------|------------------|----------|----------|-----------|--------|
| AT-A35/SX   | Yes              | Yes      | Yes      | Yes       | Yes    |
| AT-A35/LX   | Yes              | Yes      | Yes      | Yes       | Yes    |
| AT-A39/T    | Yes <sup>1</sup> | Yes      | Yes      | Yes       | Yes    |
| AT-A40/SC   | No               | Yes      | Yes      | Yes       | Yes    |
| AT-A40/MT   | No               | Yes      | Yes      | Yes       | Yes    |
| AT-A41/SC   | No               | Yes      | Yes      | Yes       | Yes    |
| AT-A41/MT   | No               | Yes      | Yes      | Yes       | Yes    |
| AT-A42/GBIC | Yes              | Yes      | Yes      | Yes       | Yes    |

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

#### Regulatory Standards

| AT-A35/SX, AT-A35/LX & AT-A39T                           |   |
|--|---|
| EMC  | EN55022 class A, FCC class A, and VCCI class A                                      |
| Immunity   | EN55024   |
| Safety   | Listing - UL, cUL, TUV<br>Standards - UL 60950, CAN/CSA-C22.2 NO. 60950-00, EN60950 |
| AT-A40/SC, AT-A40/MT, AT-A41/SC, AT-A41/MT & AT-A42/GBIC |   |
| EMC  | EN55022 class A, FCC class A, and VCCI class A                                      |
| Immunity   | EN55024   |
| Safety   | Listing - UL, cUL, TUV<br>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 (singlemode fiber & multi-mode fiber)
- Flexible, hot-swappable GBIC
- Interoperable with Rapier i, Rapier G6, Rapier G6F & 8700XL switches
- LED status indicators
- Compact size

#### Gigabit Interface Converter (GBIC) Modules

##### AT-G8SX

500m SX GBIC, based on 50 Micron fiber  
220m SX GBIC, based on 62.5 Micron fiber

##### AT-G8LX10

10km LX GBIC, based on 9 Micron fiber

##### AT-G8LX25

25km LX GBIC, based on 9 Micron fiber

##### AT-G8LX40

40km LX GBIC, based on 9 Micron fiber

##### AT-G8LX70

70km LX GBIC, based on 9 Micron fiber

# Rapier Series Uplink Modules | Gigabit & Fast Ethernet

## Competitive Matrix

| Model       | Port                             | Connector       | Cable Type <sup>1</sup>                   | Max Cable Length  |
|-------------|----------------------------------|-----------------|---|---|
| AT-A35/SX   | 1000SX                           | SC              | 50/125 micron multimode fiber             | 550 m (1,804ft) <sup>2</sup>                                      |
|             |                                  |                 | 62.5/125 micron multimode fiber           | 275 m (902ft) <sup>3</sup>  |
| AT-A35/LX   | 1000LX                           | SC              | 9/125 micron singlemode fiber             | 3km (1.8mi) increasing to 10km (6mi) if linking two 1000LX models |
|             |                                  |                 | 50/125 or 62.5/125 micron multimode fiber | 550m (1804ft) <sup>2</sup>  |
| AT-A39/T    | 10/100/1000T <sup>4</sup>        | RJ-45           | CAT5<br>CAT5E                             | 100 to 150m (328 to 492ft)<br>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 (multimode fiber, 1300nM)  | SC              | 50/125 or 62.5/125 micron multimode fiber | 2km   |
| AT-A41/MT   | 100FX (singlemode fiber, 1300nM) | MT-RJ           | 9/125 micron singlemode fiber             | 15km  |
| AT-A42/GBIC | 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 or

Rapier i model, otherwise operation is fixed at 1000Mbps.

| (ATR) Model | singlemode/multimode | Wavelength | Tx power (dBm)                              | Sensitivity (dBm)               | Saturation (dBm) |
|-------------|----------------------|------------|---|---------------------------------|------------------|
| AT-A35/SX   | multimode fiber      | 850        | -4 to -9.5                                  | -12.5 @ 62.5uM,<br>-13.5 @ 50uM | 0                |
| AT-A35/LX   | singlemode fiber     | 1310       | -3 to -9.5 @ 9uM,                           | -20                             | -3               |
|             | multimode fiber      |            | -3 to -11.5 @ 62.5uM,                       |                                 |                  |
|             | multimode fiber      |            | -3 to -11.5 @ 50uM                          |                                 |                  |
| AT-A40/SC   | multimode fiber      | 1310       | -14 to -19 @ 62.5uM,<br>-14 to -22.5 @ 50uM | -34.5                           | -14              |
| AT-A40/MT   | multimode fiber      | 1310       | -14 to -19 @ 62.5uM,<br>-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               |

## Ordering Information

### AT-A35/SX

1 x 1000SX/SC uplink with SC connector

### AT-A35/LX

1 x 1000LX/SC uplink with SC connector

### AT-A39/T

1 x 1000T uplink with RJ-45 connector

### AT-A40/SC

100FX multimode fiber uplink with SC connector

### AT-A40/MT

100FX multimode fiber uplink with MT connector

### AT-A41/SC

100FX singlemode fiber uplink with SC connector

### AT-A41/MT

100FX singlemode fiber uplink with MT connector

### AT-A42/GBIC

Uplink module with 1 GBIC bay (Uses Allied Telesis standards-based GBIC modules. GBIC ordered separately)

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