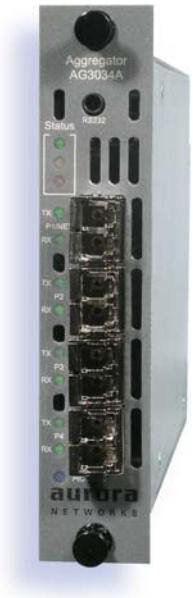
aurora NETWORKS

AG3034

Aggregator

Features

- Fiber on Demand Network Interface Aggregator
- Supports scalable and flexible star architectures
- One Network and three Local optical ports independently configurable with a variety of 2.125 Gbps SFP transceivers
- Network port interfaces to NI3030 Network Interface Module
- Local ports support three separate fiber paths
- Supports Aurora's Opti-Trace family of management software over a standard IP network
- Single width, half-depth module
- Hot plug-in/out



The AG3034 Aggregator supports 3-way splitting/combining of 2.125 Gbps signals to/from a NI3030 Network Interface Module. With one Network port (interface to the NI3030) and three Local optical ports (each configurable with standard plug-in SFP transceivers), scalable and flexible star architectures can be created by splitting and combining multiple clusters.

The Local ports can be connected, for example, to Aurora's Virtual Hubs or to a DS4004 Optical Ethernet Multiplexer in a standard NC4000 series Optical Node. With a maximum of 16 separate 100 Mbps lines sharing the 2.125 Gbps line rate, the AG3034 Aggregator brings added flexibility to your network.

AG3034 Product Specifications

Physical:

- Dimensions:

  6.6” D x 4.3” H x 1.0” W (16.7 cm x 10.9 cm x 2.54 cm)
- Weight:

  1.0 lbs (0.45 kg)

Environmental:

- Operating temperature range: –20º to +65ºC (–4º to 149ºF)
- Storage temperature range: –40º to +85ºC (–40º to 185ºF)
- Humidity: 5% to 95% non-condensing

Power Requirements:

- Input voltage (from chassis mid-plane):

  12 V_{DC} (420 mA with no SFPs installed; 670 mA with four SFPs)
- Power consumption, max:

  5 W (with no SFPs installed), 8 W (with four SFPs)

General:

- Hot plug-in/out
- Optical interface: LC duplex (on pluggable SFP transceivers)
- Optical transmission bit rate: 2.125 Gbps (each of four ports)

Front Panel:

- RS-232 port (factory use only)
- Optical ports: one Network port and three Local ports (enabled with SFP transceivers)

Front Panel Status Indicators and Controls:

- Module “Status” LEDs:

  Green = OK

  Yellow = non-service-affecting alarm (or alarm history present)

  Red = service-affecting alarm
- Blue “Access” LED: Communications with chassis mid-plane
- Plug-in transceiver port status indicators (separate TX and RX LEDs for each port):

  TX: Illuminated if SFP detected and transmission OK
  Off if transmission fails

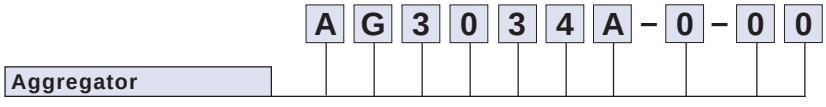
  RX: Illuminated if local reception OK
  Blinks if excessive BER
  Off if LOS condition occurs

Optical:

The Network and Local optical ports can be populated with a variety of SFP (plug-in) transceivers depending on the network application. Please refer to the appropriate data sheets for the selected transceivers for detailed specifications. Following is a summary of available transceiver options (model numbers and brief descriptions) for this port.

- Network Port (2.125 Gbps) Transceivers
  - TR40xx-PI (transmit at 1310nm for links up to 10 km or 40 km)
  - TR4540-0000-PI (transmit at 1550nm for links up to 40 km)
  - TR4440B-*xxxx*-PI (transmit at CWDM wavelength of *xxxx* = 1430, 1450, 1470, . . ., 1610 nm for links up to 40 km)

Ordering Information



Note

Appropriate SFP (plug-in) transceivers for the optical ports must be selected for your application and ordered separately. (Please refer to the list of available SFPs above.)

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