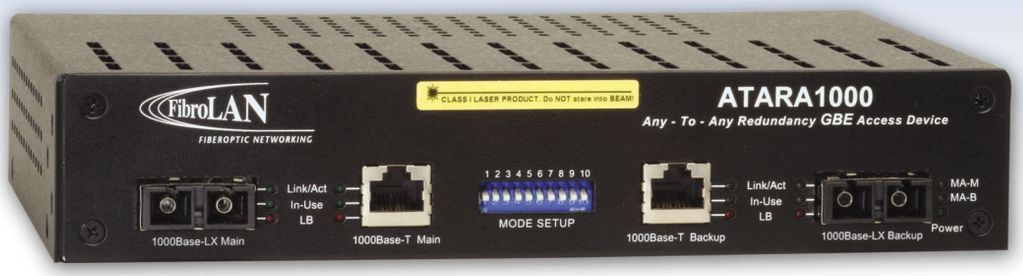
Access

ATARA1000

GigaBit Ethernet



Any-To-Any Redundancy GBE MA™ Managed Access Device

The ATARA1000 is an MA™ managed **"Any To Any"** 1000Base-T to 1000Base-LX Redundant Link Access Device. It is designed to connect mission critical/large network users to ensure fault-free operation by protecting both the fiber path and the TP user interface. The ATARA1000 automatically selects the active port on each F/O and TP sides (with priority to "MAIN" ports) and interconnects them. It has two TP and two F/O connectors. In this way, end-to-end path and device redundancy is achieved disregarding the type of the remote device, catering to various network resilience scenarios. Upon failure of a MAIN port, the module switches traffic very fast to the Backup port and alerts the network manager. When the Main link is restored, the traffic automatically or manually switches back to it, providing operational consistency and easy tracing of the active path. The switchback occurs immediately after link restoration or following a tunable delay (via the management system) to avoid network instability during the repair process. Inactive Ports (normally Backup) are continuously monitored for link integrity, providing the network manager with valuable information of his system's readiness. Using front panel DIP switch (or via management), the Redundant mode may be disabled. In such case, the device functions exactly like a dual channel converter, with each 2 adjacent ports forming a channel. The device is offered in a large variety of optical interfaces, dual SC, S/M, 1330/1550nm, allowing the extension of the network up to 80km.

FibroLAN's unique Link Segmentation Test (**LST**) allows easy link segmentation to facilitate Network diagnostics. A Loop-Back function on each port simplifies troubleshooting of Link problems.

The RJ-45 ports are Auto Cross compliant, making installation flexible. The Subscriber Link Emulation (**SLE**), when link partner is an MA enabled device – allows real time notification of the remote user failure while maintaining the fiber link active. The rate limiting mechanism provides the carrier with a platform to ensure SLAs along with high over-subscription rates. Like other **MA enabled devices**, the ATARA1000 can be remotely managed via the ***MetroStar***. The embedded MA chip allows full management eliminating the need of costly SNMP processors and IP addresses.

When the ATARA1000 is connected over a fiber link to a remote device that is MA™ enabled and SNMP managed (***MetroStar***), its "MA" LED indicator will turn ON and a rich set of management functions is performed from any management station through the remote Master Unit.

Key Features

- **Any-to-Any Redundant Links**
  fits any scenario
- **Tunable delayed switch-back**
  enhanced network stability
- **Dual Channel operation**
  optimized logistics
- **Link Segmentation Test (LST)**
  total network resilience
- **Subscriber Link Emulation (SLE)**
  for mission critical networks
- **Auto-Cross and Auto Polarity Correction**
- **Reliability**
  internal PS (optional -48Vdc PS)
- **Management**
  MetroView Device Manager

FibroLAN Access

ATARA1000

Management Functions

The ATARA1000 remote CPE is managed through the serial connection (CLI) or a Telnet connection, when connected to a *MetroStar* module.
The Main Menu contains the following management functions:
Device status: Main link status (TP and FO), Backup link status (TP and FO) and Firmware revision

CPE local configuration:
View configuration menu of the local channel (Main or Backup), Set channel description,Redundancy control parameters, Upstream bandwidth setting, LB/LST control, TP port configuration, Restore device's channel configuration, Set TP fail-over response time

General Specifications

Standard Compliance
IEEE802.3 2000 edition
1000Base-T, 1000Base-LX, IEEE802.3z, IEEE802.3ab

1000Base-T ports (x2)
Shielded RJ-45, auto-polarity correction
Automatic MDI/MDIX Crossover
100m over Cat. 6 STP cabling

Main to Backup Switchover
<10 µsec

Diagnostic LEDs
F/O - Link/Activity, Port in Use, LB (Loop-Back)
TP - Link/Activity, Port in Use, LB (Loop-Back)
Power, MA-M, MA-B (Main and Backup MA indicators)

Management
MetroView Device Manager

Conversion Method
Layer 1, between any Fiber to Any TP port

1000Base-LX ports (x2)
Dual Duplex SC connectors
For SM and SFS (Single Fiber Strand) F/O specifications, refer to FibroLAN Data Sheet (DS-FO)

Backup to Main switchover
Tunable to 0/5/10/20 sec. or manually via management

Controls (DIP switches)
Mode (Redundant Links/Dual Channel Converter)
LST ON/OFF; Loop-Back ON/OFF

Local Management
FibroLAN MA™ (Micro Agent) Technology

Environmental and Physical

Power-Supply
Internal, 100÷240VAC, 50÷60Hz
-36 ÷ -72VDC optional (PS48)

Operating Temperature
0º÷45ºC; ETR = -10º÷+70ºC optional

Humidity
10%÷90% non-condensing

Safety: designed to meet
EN 60950

EMC: designed to meet
FCC part 15, subpart A, Class A
EN 300 386 V1.3.3

Power Consumption
5W max.

Storage Temperature
-20º÷+80ºC

Weight
600 gram

Dimensions
223x44x150mm (WxHxD)

Installation modes
Desk-top, wall-mount, 19" Rack shelf

Ordering information

Part #	Model	Description
3950	ATARA1000-LX1	1000T to 1000LX Redundant Link Access Device, SM **10km** 1310nm, 2x Duplex SC, MA™ managed
3951	ATARA1000-LX2	1000T to 1000LX Redundant Link Access Device, SM **20km** 1310nm, 2x Duplex SC, MA™ managed
3952	ATARA1000-LX3	1000T to 1000LX Redundant Link Access Device, SM **40km** 1550nm, DFB, 2x Duplex SC, MA™ managed
3953	ATARA1000-LX4	1000T to 1000LX Redundant Link Access Device, SM **80km** 1550nm, DFB, 2x Duplex SC, MA™ managed
3958	ATARA1000-F13L	1000T to 1000LX Redundant Link Access Device, SM **40km** Single Fiber Strand 1310nm DFB Tx/ 1550nmRx, 2x Simplex SC, MA™ managed
B097	PS48	DC (-36 to –72Vdc) Power Supply (instead of the AC Power Supply)
B098	ETR	Extended Temperature Range (-10 to +70 Centigrade) option
B160	RM2	19" Rack shelf for installation of up to two ATARA1000 devices
B218	MBR	Set (pair) of rack-mounting brackets

Specifications subject to change w/o prior notice

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