# FibroLAN Converters

## LTA41/LTA31M





## Fiber Local Traffic Aggregators

The LTA41 is a traffic aggregation device allowing four TP local users to share a single fiber link thus saving up to 75% on active and passive network infrastructure. Ideal applications are FTTD (Fiber to the Desk) where several users occupy an office and FTTH (Fiber to the Home) where several subscribers may be located in same multi-tenant building or even on the same floor. The device utilizes BMD (Buffered Media Domain) technology to allow connection of a variety of local users (PCs, hubs, switches, 10, 100Mbps etc) without the need to qualify the network or perform PDV calculations prior to the deployment of the F/O link. This is a real asset in FTTH projects as users are widely dispersed and have a large and unpredicted variety of equipment.

The BMD along with VLANs implemented in the device provide a basic level of security and separation between the users as they allow only traffic between each user and the F/O link, thereby blocking traffic between users.

The fiber link implements **FEF** (Far End Fault signaling) to provide a true 2-way link integrity indication and together with the TEST switch - a powerful diagnostic tool.

The LTA41 is available in a variety of multimode and single-mode fiber interfaces (distances up to 150km) as well as single-fiber-strand (with full bi-directional traffic) models.

The device is standard "half-rack" size for economical installation in both rack-mount and desk-top modes. It is equipped with a reliable internal switching power supply for extended MTBF. The optional DC power supply facilitates deployment in Telco environments.

The **LTA31M** is a SNMP managed in-band version providing connection for 3 users. In addition to common monitoring functions, the service provider can control remotely mode, allowed to subscribers. When ordered with the ETR option, the device will operate at a wide temperature range of -10°C to +70°C for many outdoor applications.

## Key Features

- 4:1 traffic aggregation for 75% savings (LTA31M: 3:1 traffic aggregation)
- VLANs for users separation
- Easy deployment connects to any network equipment
- Extensive remote monitoring and control
- Distances up to 150km
- Single Fiber Strand option Bi-Di traffic
- Extended Temperature Range option for industrial deployment

## Management Functions (LTA31M)

**The Device Main Menu** includes the following options: 1. Device Status 2. Device Control .3 Software version control

The Device Status includes Basic ports Status and Advanced status Basic port's status provides the following information about each port:

Port number, Interface type (TP/FO), Link status (On/Off), Duplex mode (FDX/HDX), Auto negotiation mode, Data rate (10/100M) connection, VLAN mode (en/disabled)
Device's temperature (in centigrade)

**The device's advanced status** consists of: Test mode (FEF disable/enable), Priority ratio (always hi/10:1/5:1/2:1), Broadcast protection (25/12/6/3%), DSCP codes (64 bits), User priority classification (7 priority codes, set as high or low priority)

The device control menu enables the user to change the different setting and configuration of the LTA31M:TPx port control (x=1,2,3,4), Device reset, Basic device control, Advanced device control and Management control

DSB104R0706



# (FIDELAN Converters

## LTA41/LTA31M

### General Specifications

#### **Standard Compliance**

IEEE802.3u, 100Base-TX, 10Base-T, 100Base-FX

VLAN per port

10/100Base-TX Ports 1÷4 (1÷3 in LTA31M)

Shielded RJ-45, Auto-Cross, auto-polarity 100m over

STP cat.5 or higher cable

HDX/FDX via auto-negotiation or forced (DIP) 10Base-T auto-negotiation or forced (DIP)

Diagnostic LEDs per Port

FX port: Link/Activity, FDX

TX ports (each): Link/Activity, FDX, 100M

**Diagnostics per System** 

Power, Link Test

Management (LTA31M): RS232 (miniDIN)

terminal connector. LEDs: RCV, Ready

#### **Conversion Method**

BMD (Buffered Media Domain), Full wire speed, 1000 MAC addresses, FDX flow control, HDX backpressure flow control

100Base-FX Port

Duplex SC connector (ST optional)

Far End Fault Signaling; HDX/FDX selection 1310nm multi-mode - -18dbm min. output power, -

32dbm or better sensitivity
Optional single-mode for 7/15/25/40/70/100/150km

Single Fiber Strand (/SMRF1x) models

Controls (DIP switches)
FX port: FDX/HDX, Far End Fault enable/disable TX port #4:10/100, FDX/HDX, A/N enable-disable TX ports 1÷3: Auto-negotiation /forced FDX-10Mb

VLAN ports enable/disable

Reset device

## Environmental and Physical

Power-Supply

Internal, 100÷240VAC, 50÷60Hz Optional DC PS (-36÷-72VDC)

**Operating Temperature** 

 $0^{\circ} \div 45^{\circ}$ C; ETR =  $-10^{\circ} \div +70^{\circ}$ C optional

Humidity

10%÷90% non-condensing

Safety

UL 60950, EN 60950

**EMC** 

FCC part 15, subpart A, Class B, VCCI Class A ICES 003:1997, Class A, EMC Directive 89/336/EEC

#### **Power Consumption**

15W max.

**Storage Temperature** 

 $-20^{\circ} \div +80^{\circ} \,\mathrm{C}$ 

Weight

600gram

**Dimensions** 

223x44x150mm (WxHxD)

Management (LTA31M only)

Management (LTA31M only)

Out-of band (RS232 Port, terminal emulation) In band SNMP management and Telnet

## Ordering Information

B104	LTA41	4x10/100Base-TX to 100Base-FX, MM, 2km 1310nm, 4x RJ45 ports (switched, VLAN) and Duplex SC
B174	LTA41/T	4x10/100Base-TX to 100Base-FX, MM, 2km 1310nm, 4x RJ45 ports (switched, VLAN) and Duplex ST
B108	LTA41/SMR7	4x10/100Base-TX to 100Base-FX, SM, 7km 1310nm, 4x RJ45 ports (switched, VLAN) and Duplex SC
B109	LTA41/SMR	4x10/100Base-TX to 100Base-FX, SM, 15km 1310nm, 4x RJ45 ports (switched, VLAN) and Duplex SC
B110	LTA41/SM	4x10/100Base-TX to 100Base-FX, SM, 25km 1310nm, 4x RJ45 ports (switched, VLAN) and Duplex SC
B111	LTA41/SM/L	4x10/100Base-TX to 100Base-FX,SM, 40km 1310nm, 4x RJ45 ports(switched, VLAN) and Duplex SC
B112	LTA41/SM/L2	4x10/100Base-TX to 100Base-FX, SM, 70km 1310nm, 4x RJ45 ports (switched, VLAN) and Duplex SC
B113	LTA41/SMRF13	4x10/100Base-TX to 100Base-FX, SM, SFS, 15km 1310nm Tx/ 1550nm Rx, 4x RJ45 ports (switched, VLAN)
		and single SC connector
B105	LTA31M	3x10/100Base-TX to 100Base-FX, MM, 2km 1310nm, 3x RJ45 ports (switched, VLAN), Duplex SC,
		SNMP Managed
B175	LTA31M/T	3x10/100Base-TX to 100Base-FX, MM, 2km 1310nm, 3x RJ45 (switched, VLAN), Duplex ST, SNMP Managed
B114	LTA31M/SMR7	3x10/100Base-TX to 100Base-FX, SM, 7km 1310nm, 3x RJ45 (switched, VLAN), Duplex SC, SNMP Managed
B115	LTA31M/SMR	3x10/100Base-TX to 100Base-FX, SM, 15km 1310nm, 3x RJ45 (switched, VLAN), Duplex SC, SNMP Managed
B116	LTA31M/SM	3x10/100Base-TX to 100Base-FX,, SM, 25km 1310nm, 3x RJ45 (switched, VLAN), Duplex SC, SNMP Managed
B117	LTA31M/SM/L	3x10/100Base-TX to 100Base-FX,, SM, 25km 1310nm, 3x RJ45 (switched, VLAN), Duplex SC SM,
		40km 1310nm, 3x RJ45 (switched, VLAN), Duplex SC, SNMP Managed
B118	LTA31M/SM/L2	3x10/100Base-TX to 100Base-FX,, SM, 25km 1310nm, 3x RJ45 (switched, VLAN), Duplex SC SM,
		70km 1310nm, 3x RJ45 (switched, VLAN), Duplex SC, SNMP Managed
B119	LTA31M/SMRF13	3x10/100Base-TX to 100Base-FX,, SM, 25km 1310nm, 3x RJ45 (switched, VLAN), Duplex SC SM, SFS,
		15km 1310nm Tx/ 1550nm Rx, 3x RJ45 ports (switched, VLAN) and single SC connector, SNMP Managed
B097	PS48	-36÷72VDC power supply for LTAxx (instead of the 100÷240VAC, 50÷60Hz PS)
B098	ETR	Extended Temperature Range option for LTAxx devices
B160	RM2	19" Rack shelf, for installation of up to 2 LTAxx devices

Specifications are subject to change w/without prior notice

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