



Fast Ethernet



Dual fiber Link Access/Media Conversion device

The **DLA22** is a powerful and most versatile device designed for a variety of Fiber-Optic Access and Media Conversion applications. It features 2 Fiber ports (SC or others) and 2 TP (RJ45) ports for connection of local stations or LANs. It utilizes FibroLAN's unique and most successful **BMD™** (Buffered Media Domain) technology to facilitate unprecedented Fiber-Optic distances (up to 150km) independent from the nature of the local networks. Its flexible architecture, enhanced by factory set VLANs allow its deployment as a Media Converter with a redundant link (fast recovery) and single mode to multi mode applications. The **DLA22** may also be deployed as an access device in an ADM (add-and-drop) architecture

in ring or string topologies. In this mode, as the copper ports are buffered from the F/O ports, the device provides an electrical bypass in case of failure of the local user. The DLA22 is equipped with an internal quality auto-range power supply (-48VDC power supply is optional). The powerful FEF (Far End Fault) mechanism implemented provides true-link indication and alerts user of any failure of both incoming and outgoing links.

The compact yet robust enclosure allows installation as desk-top, shelf-mounted, wall-mounted (2 units on one 19" shelf) or directly in a Half 19" rack.

All **DLA22** models are available in SNMP in-band managed versions (see DSB107).

Key Features

- **Network extension:** maximal distances (up to 150km)
- **Point-to-Point, Ring or String architectures**
- **Redundant Link for mission critical applications**
- **Single mode to Multi mode conversion**
- **Factory set VLANs**
- **ADM Architecture** (ring/string topology)
- **Reliability:** internal quality power-supply
- **DC power supply** (optional) for Telco applications
- **Flexible installation:** desk-top, shelf-mounted, wall-mounted or rack mounted
- **Constant Loop-Back** via FEF mechanism

General Specifications

Standard Compliance

IEEE 802.3u, 10Base-T, 100Base-TX, 100Base-FX, VLAN per port

10/100Base-TX ports (2)

Shielded RJ-45

Half/Full Duplex support

10Base-T and 100Base-TX

100m over UTP/STP Cat.5 cable

Full auto-negotiation with manual setting option (DIP switch selectable)

Auto Cross

100Base-FX ports (2)

1310nm, multi-mode, SC connectors

Distance - 2000m (6600ft)

Output Power: -18dbm or better

Input Sensitivity: -32dbm or better @62.5/125 μ m fiber

Optional single mode for 7/15/25/40/70/100 /150km (see separate table) and single-fiber-strand

Far End Fault (FEF) signaling

Conversion Method

BMD™ (Buffered Media Domain), Full wire speed, 1000 MAC addresses, FDX flow-control, HDX back-pressure flow control

Diagnostics

F/O ports: FDX, Link/Activity

TP ports: FDX, Link/Activity, 100 Power

Management Section

RS232 (miniDIN) terminal connector

LEDs: RCV, Ready

See data sheet of DLA22M (DSB107)

Controls

FDX/HDX (all ports)

Auto-Negotiation enable/disable

10 or 100 Mbps forced (TP ports)

Back-Up mode enable/disable

FEF enable/disable

Environmental and Physical

Power-Supply

Internal, 100 \pm 240 VAC, 50 \pm 60Hz

Power Consumption

15 Watts maximum

Operating Temperature

0 \pm +45 $^{\circ}$ C (ETR=-10 $^{\circ}$ C \pm +70 $^{\circ}$ C - optional)

Storage Temperature

-20 \pm +80 $^{\circ}$ C

Humidity

10% \pm 90% non-condensing

Safety

UL 1950:1995 EN 60950

EMC

FCC part 15, Subpart B, Class A; VCCI Class A; CES 003:1997, Class A; EMC Directive 89/336/EEC

Dimensions

223x44x150mm (WxHxD)

Weight

600 gram

Ordering Information

DLA22	Versatile 10/100TX-FX, Dual F/O link, SC, Multi-Mode
DLA22/T	Versatile 10/100TX-FX, Dual F/O link, ST, Multi-Mode
DLA22/SMR7	Versatile 10/100TX-FX, Dual F/O link, SC, Single-Mode 7km
DLA22/SMR	Versatile 10/100TX-FX, Dual F/O link, SC, Single-Mode 15km
DLA22/SM	Versatile 10/100TX-FX, Dual F/O link, SC, Single-Mode 25km
DLA22/SM/L	Versatile 10/100TX-FX, Dual F/O link, SC, Single-Mode 40km
DLA22/SMRF135	Versatile 10/100TX-FX, Dual F/O link, SC, Single-Mode 15km, single Fiber strand, One port 1550nmTX-1310nmRX, Second port 1310nmTX- 1550nmRX
DLA22M	Versatile 10/100TX-FX, Dual F/O link, SC, Multi-Mode, SNMP managed
DLA22M/T	Versatile 10/100TX-FX, Dual F/O link, ST, Multi-Mode, SNMP managed
DLA22M/SMR7	Versatile 10/100TX-FX, Dual F/O link, SC, Single-Mode 7 km, SNMP managed
DLA22M/SMR	Versatile 10/100TX-FX, Dual F/O link, SC, Single-Mode 15 km, SNMP managed
DLA22M/SM	Versatile 10/100TX-FX, Dual F/O link, SC, Single-Mode 25km, SNMP managed
DLA22M/SM/L	Versatile 10/100TX-FX, Dual F/O link, SC, Single-Mode 40km, SNMP managed
DLA22M/SMRF135	Versatile 10/100TX-FX, Dual F/O link, SC, Single-Mode 15km, single Fiber strand, One port 1550nmTX-1310nmRX, Second port 1310nmTX- 1550nmRX, SNMP managed
DLA200/SMR7	100BaseFX, SC, Multi mode to single mode 1310nm, 7km, BMD
DLA200/SMR	100BaseFX, SC, Multi mode to single mode 1310nm, 15km, BMD
DLA200/SM	100BaseFX, SC, Multi mode to single mode 1310nm, 25km, BMD
DLA200/SM/L	100BaseFX, SC, Multi mode to single mode 1310nm, 40km, BMD
DLA200/SMRF13	100BaseFX, SC, Multi mode to single mode /single fiber 1310/1550nm, 15km, BMD
DLA200/SMRF15	100BaseFX, SC, Multi mode to single mode /single fiber 1550/1310nm, 15km, BMD
PS48	-36 \pm 72VDC power supply for DLAXxx (instead of the 100 \pm 240VAC, 50 \pm 60Hz PS)
ETR	Extended Temperature Range option for DLAXxx

International:

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Specifications subject to change without prior notice