FibroLAN Access

S.CON1

Fast Ethernet

10/100Base Tx-Fx Media Converter

The SCON1 family products are 10/100Base-TX to 100Base-FX buffered media converters. These devices implement a non-repeater full re-timing design.

Auto-Negotiation is deployed on TP port to determine link options and optimal settings. The F/O port operates at maximum performance: 100Mbps Full Duplex.

Special attention is given to allow easy installation and maintenance: MDI-II/MDI-X switch to allow the usage of either a straight or crossed twisted pair cabling, internal AC or DC quality power-supply, extensive front-panel diagnostic LEDs and front panel DIP switches for optimal setup. The SCON1 supports bi-directional Fault Propagation mechanism.

The powerful FEF (Far End Fault) Signaling feature provides true- link indication and alerts user of any failure of both incoming and outgoing fiber links.

In case when more than one device must be installed in a wiring center, a special 19" shelf is available for safe installation while occupying minimal rack-space. Single-Fiber-Strand versions save 50% of the cable plant.

Key Features

- **Top Performance**: maximum distances (2000m MM, 150km SM,100m TP port) in any network architecture
- **Flow Control:** for optimal performance
- **Front Panel DIP switches:** easy TP and F/O port setup for optimal operation
- **Reliability**: internal quality power-supply (AC or DC P.S.)
- **Maintainability**
  extensive (7 LEDs/14 functions) front-panel diagnostic indicators
- **FEF:** (Far End Fault) for F/O port Link integrity test
- **SFS: (Single Fiber Strand)** models for fiber saving (20/40/80Km)
- **Fault Propagation:** for additional resiliency
- **ETR:** Optional Extended Temperature Range for industrial environment
- **Flexibility:** desk-top, shelf or wall mount installations

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General Specifications

Standard Compliance
IEEE 802.3u, 100Base-TX,10Base-T, FDSE
100Base-FX

10/100Base- TX ports
Shielded RJ-45
Speed and Half/Full Duplex support via auto-negotiation or forced (DIP switches)
100m over STP Cat.5 cable
Auto-Polarity correction
MDI-II/MDI-X selection (front panel switch)
10/100Base-TX_ support via auto-negotiation or forced (DIP switches)

Controls (Front panel DIP switches)
FX port : FDX/HDX selection
TX port : 10/100, FDX/HDX
Auto-Negotiation enable/disable
Enable/Disable Fault Propagation (F>T, T>F)
Reset device

Conversion Method
BMD™ (**B**uffered **M**edia **D**omain), FDX flow control, HDX back-pressure flow control
1K Mac addresses, Frames: 64÷1518 bytes

100Base- FX Port
FEF Signaling
Half or Full Duplex (DIP switch selectable)
1310nm,multi-mode, Duplex SC/ST
Distance - 2000m
Output Power: -18dBm or better
Input Sensitivity: -32dBm or better
Single Mode 7/15/25/40/70/100/150 Km
Single-Fiber-Strand 20/40/80km
Refer to FibroLAN F/O Specs DS (DS-FO)

Diagnostic LEDs
F/O port: Link/Activity, Signal Detect, FDX
TP port: Link/Activity, FDX, 100Mbps
Power On/Off

Environmental and Physical

Power-Supply:
Internal, 100 ÷ 240 VAC, 50 ÷ 60Hz
IEC connector; -48VDC optional P.S.(PS48)

Operating Temperature
0°÷ 45°C
Humidity:10% to 90% non-condensing

Safety Designed to meet: ICE- EN60950

Dimensions: 120x170x44mm

Power Consumption
5 Watts maximum.

Storage Temperature
-20°÷+80°C

EMC- designed to meet:
FCC part 15, Subpart B, Class A
EMC Directive 89/336EEC
EN 300 386 V1.3.3

Weight: 500gr

Ordering Information

Part #	Model	Description
B017	S.CON1	Single Channel 10/100TX-FX converter, BMD, duplex SC, MM, 2km
B019	S.COM1/T	Single Channel 10/100TX-FX converter, BMD, ST connectors, MM, 2km
B060	S.CON1-48	Single Channel 10/100TX-FX converter BMD, duplex SC, MM, 2km, -48VDC PS
B015	S.CON1/SMR7	Single Channel 10/100TX-FX converter, BMD, duplex SC, SM, 7km, 1310nm
B059	S.CON1/SMR	Single Channel 10/100TX-FX converter, BMD, duplex SC, SM, 15km, 1310nm
B061	S.CON1/SM	Single Channel 10/100TX-FX converter, BMD, duplex SC, SM, 25km, 1310nm
B027	S.CON1/SM/L	Single Channel 10/100TX-FX converter, BMD, duplex SC, SM, 40km, 1310nm
B028	S.CON1/SM/L2	Single Channel 10/100TX-FX converter, BMD, duplex SC, SM, 70km, 1310nm
B147	S.CON1/SM/L3	Single Channel 10/100TX-FX converter, BMD, duplex SC, SM, 100km, DFB 1550nm
B029	S.CON1/SM/LX	Single Channel 10/100TX-FX converter, BMD,2* SC,SM,150km, 1550nm DFB
B034	S.CON1/SMRF15	Single Channel 10/100TX-FX converter, BMD, simplex SC, Single-Fiber-Strand, SM, 20km, 1550nmTx/1310nmRx
B030	S.CON1/SMRF13	Single Channel 10/100TX-FX converter, BMD, simplex SC, Single-Fiber-Strand, SM, 20km, 1310nmTx/1550nmRx
B294	S.CON1/SMXF15	Single Channel 10/100Base-TX to 100Base-FX converter, BMD (Buffered Media Domain), simplex SC connector, single-mode - 80km,1550nm Tx DFB/1310nm Rx **Single Fiber Strand**
B295	S.CON1/SMXF13	Single Channel 10/100Base-TX to 100Base-FX converter, BMD (Buffered Media Domain), simplex SC connector, single-mode - 80km,1310nm Tx/1550nm Rx **Single Fiber Strand**
B097	PS48	Optional DC Power Supply (-36 ÷-72VDC) instead of AC PS
B151	CBPS-DC48V	DC PS Cable, 2m for PS48
B098	ETR	Extended Temperature Range (-10^{0} ÷ +70^{0}C) option for all S.CON devices
B012	CTF-RM	19" Rack shelf for installation of up to 3 S.CON1 devices
B161	SCH-WM	Wall mount kit

Specifications are subject to change w/without prior notice

FibroLAN Ltd.
P.O.Box 544 Yoqneam-Illit, 20692 ISRAEL
Tel: +972-4-9591717,Fax: +972-49591718
info@fibrolan.com www.fibrolan.com

FibroLAN Inc.
350 W Passaic St. Rochelle Park, NJ 07662
Toll free: (800) 406 6088
Tel: (201) 843 1626 Fax: (201) 843 1628
us-info@fibrolan.com

Studio Michal