

SDSFE321x-110**NEW**

Transition Networks's Industrial Device Servers provide a serial-to-Ethernet conversion to enable customers to integrate any legacy serial-based device into their Ethernet networks located in either the office environment or on the factory floor.

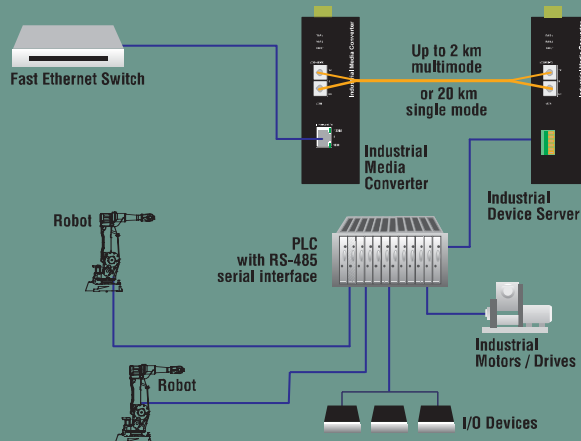
These hardened devices are designed to reliably operate in harsh environments and/or extreme temperatures such as those found on factory floors, outdoor enclosures or other hazardous environments.

Network-enable serial based devices quickly and cost-effectively with these hardened industrial serial-to-Ethernet device servers. The device server can connect to RS-422 or RS-485 serial ports and provides a 100Base-FX Fast Ethernet fiber optic connection for links up to 80km.

Device servers can also help eliminate EMI and RFI issues or overcome distance limitations with copper based serial cabling by converting your copper-based serial equipment over to fiber optics.

Features

- ▶ Remote Management
- ▶ Supports asynchronous serial data rates up to 115kb/s
- ▶ Supports 4-wire RS-422 or 2/4-wire RS485 operation
- ▶ Control up to 4,096 virtual COM ports from one PC
- ▶ Extended (0°C to 70°C) operating temperature
- ▶ Redundant DC Power Inputs
- ▶ Dry Contact Relay output for power failure and link down
- ▶ DIN rail mounting brackets included

Network Enable Serial Devices in Industrial Applications**Specifications**

Standards EIA/TIA RS-422, EIA/TIA RS-485, IEEE Std. 802.3™

Data Rate **Serial:** 115 kb/s
Fiber: 100Mb/s

Fiber Optic Connector Specs

SKU	Min TX PWR (dBm)	Max TX PWR (dBm)	RX Sens (dBm)	Max In PWR (dBm)	Link Budget (dB)
SDSFE3211-110	-19.0	-14.0	-31.0	-14.0	12.0
SDSFE3213-110	-19.0	-14.0	-31.0	-14.0	12.0
SDSFE3214-110	-15.0	-3.0	-30.0	-3.0	15.0
SDSFE3215-110	-15.0	-8.0	-34.0	-7.0	19.0
SDSFE3217-110	-3.0	+3.0	-37.0	0.0	34.0

Drivers Windows 95, 98, ME, 2000, 2003, XP, NT 4.0
Microsoft NT/2000/2003 Terminal Server

Switches **Switch 1:** Primary power alarm on/off
Switch 2: Redundant power alarm on/off
Switch 3: Fiber port alarm on/off
Switch 7: 2-wire 485 or 4-wire 422/485
Switch 8: Termination resistor on/off

Status LEDs**PWR (Power):**

ON = primary power connected

RPS (Power):

ON = backup power connected

ALM:

ON = fault on port link or loss of PWR or RPS

100 (fiber): ON = link on fiber 100Mb/s**LNK/ACT (fiber):** ON = fiber link / activity**POST:**

ON = Power On Self Test successful;

FLASHING = performing POST

ACT (copper): ON = Serial link / activity**Dimensions****Width:** 2.0" [50 mm]**Depth:** 3.9" [100 mm]**Height:** 4.7" [120 mm]**Ingress Protection** IP 30**Input Power** 9 to 48 VDC; 1.0A; redundant inputs

Environment 0 to +70°C standard operating temperature;
5% – 90% humidity non-condensing;
0 – 10,000 ft. altitude

Shipping Weight 2 lbs. [0.90 kg]

Compliance CISPR22/EN55022 Class A + EN55024;
EN60950 Class A; FCC Class A; CE Mark

Warranty Lifetime**Ordering Info****SDSFE3211-110**

Terminal Block [1.2 km / 0.7 miles]
to 1300nm multimode (ST)
[2 km/1.2 mi.] Link Budget: 12.0 dB

SDSFE3213-110

Terminal Block [1.2 km / 0.7 miles]
to 1300nm multimode (SC)
[2 km/1.2 mi.] Link Budget: 12.0 dB

SDSFE3214-110

Terminal Block [1.2 km / 0.7 miles]
to 1310nm single mode (SC)
[20 km/12.4 mi.] Link Budget: 15.0 dB

SDSFE3215-110

Terminal Block [1.2 km / 0.7 miles]
to 1310nm single mode (SC)
[40 km/24.9 mi.] Link Budget: 19.0 dB

SDSFE3217-110

Terminal Block [1.2 km / 0.7 miles]
to 1550nm single mode (SC)
[80 km/49.7 mi.] Link Budget: 34.0 dB

See next page for EMS and Environmental test ratings.

EMS Type Tests

Test	Description		Test Levels	Severity Level
IEC61000-4-2	ESD	Air Discharge	+/- 8KV	3
		Contact Discharge	+/- 6KV	3
		ESD Contact Indirect	+/- 6KV	3
IEC61000-4-3	Radiated RFI	Housing	10V/m, 80 MHz – 1 GHz	3
			AM 1 KHz, 80% modulation	
			10V/m, 0.9 – 1.8 GHz	
			FM 200 Hz, 50% modulation	
IEC61000-4-4	Burst (Fast Transient)	PWR Supply Lines	+/- 2KV	3
		Communication Lines	+/- 1KV	3
		Relay	+/- 1KV	3
IEC61000-4-5	Surge	PWR Supply Lines	+/- 2KV, 12 ohm, CM +/- 1KV, 2 ohm, DM	3
		Relay	+/- 2KV, 12 ohm, CM +/- 1KV, 2 ohm, DM	3
IEC61000-4-6	Induced (Conducted RFI)	PWR Supply Lines	10 Vrms, 150 KHz – 80 MHz	3
			AM 1 KHz, 80% modulation	
		Communication Lines	10 Vrms, 150 KHz – 80 MHz	3
			AM 1 KHz, 80% modulation	
		Relay	10 Vrms, 150 KHz – 80 MHz	3
			AM 1 KHz, 80% modulation	

Environmental Type Tests

Test	Description	Test Levels
IEC60068-2-6	Vibration	10 – 500 – 10 HZ, 0.5 oct./min, 4g, X, Y, Z (3 axes)
IEC60068-2-27	Shock	50 g, 11ms, 4g, +/- X, +/- Y, +/- Z (6 direction)
IEC60068-2-32	Free Fall	75 cm, 1 corner, 3 edges, 6 faces (total 10 drops)