

ETHERNET TO FIBRE MEDIA CONVERTER
LIGHTSPAN™
 SC100



LIGHTSPAN delivers fast Ethernet interface speeds for use in rugged installations like railway stations and tunnels.

The range and bandwidth of fibre in a compact and rugged package

LIGHTSPAN SC100 is a slimline 100Base-FX media converter, specially designed for the environmental and practical requirements of IP video installations.

- | Delivers fast Ethernet interface speeds with a fibre SC connection
- | Ruggedised with extended temperature range
- | Railway EMC compliance for harsh environments
- | High density mounting alongside other Veracity extension products
- | Versatile power input supports legacy 12V DC / 24V AC supplies
- | Fully automatic, simple to install and maintenance-free

TECHNICAL SPECIFICATION

LIGHTSPAN™
SC100

POWER	
Connector	Detachable screw terminal
Supply voltage	8-57 volts DC or 20-28 volts AC
Supply current	100mA (12V), 50mA (24V)
FIBRE INTERFACE	
Socket	SC Duplex
Cable	Multimode optical fibre (OM1 etc.)
Rate	125Mbps 100Base-FX
Wavelength	1310nm
Range	2,000m [1.24miles]
ETHERNET INTERFACE	
Connector	RJ45 copper Ethernet connector
Cable	Patch or crossover, auto-detected
Rate	100Base-TX full-duplex only
LED INDICATORS	
Ethernet LED	Green : Power good
Ethernet LED	Yellow : 100Base-TX link / activity
Fibre LED	Green : Power good
Fibre LED	Yellow : 100Base-FX link / activity
PHYSICAL ENVIRONMENTAL	
Dimensions	L 123mm (inc brackets), W 36mm, H 23mm,
Weight	100g [3.52oz]
Operating temperature	-40°C to 70°C [-40 °F to 158°F]
Relative humidity	85% non-condensing
Compliance	FCC, CE, RoHS, BS EN 50121-4 (rail)
Mounting	Wall mounting brackets included. 24 units/1U rackmount optional
PRODUCT CODES	
VLT-1N-SC100	Single LIGHTSPAN media converter unit, one 100Base-TX RJ45 port, one SC100 socket. 2 units required for each installation
VPSU-12V-U	12V DC power supply, universal AC input, for single unit
VHW-RMPSU	24V DC PSU (with linking cable) for 8 x VLT-1N-SC100 units
VLS-1U	1U panel for up to 24 LIGHTSPAN units, 24 HIGHWIRE Longstar units or 24 LONGSPAN units
	Rack-mountable multi-channel power supplies - optional dual-redundancy and status LEDs
	<i>For a full range of solutions, power supplies and power configurations contact sales at Veracity</i>

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Surge Protection

All Veracity products have been independently tested to verify their resilience to the stringent immunity levels of international standards. Users should note that no electronic equipment can be guaranteed to be completely protected at levels beyond the defined standard; therefore product warranty cannot include damage to products which has been caused by surges exceeding those of the standards specified, for example lightning strike activity.

It is the user's responsibility to implement relevant surge protection measures, as appropriate to the installation. This may include the fitting of additional surge protection devices where required.



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