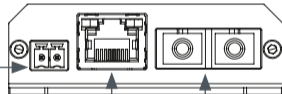


## ETHERNET LEDS & CONNECTIONS

### RJ45 LED FUNCTION

RJ45 Green	On = Power good
RJ45 Yellow	On = 100Base-TX link established

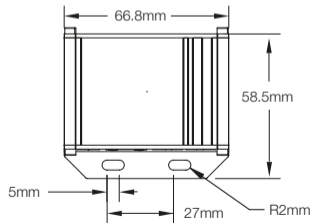
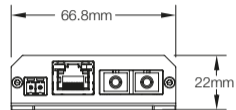
Power Connector  
(accepts  
8-57V DC  
or 20-28V AC)



RJ45 Ethernet  
100Base-TX  
full-duplex only

SC Connector (for  
connection to Multimode  
optical fibre, e.g. OM1)

## PRODUCT DIMENSIONS



## SAFETY & CERTIFICATION

The transceiver is a Class 1 Laser device - which is safe under all normal operating conditions.

### 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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VLT-SC100-CBB

## QUICKSTART GUIDE

COMPACT FIBRE MEDIA CONVERTER  
**LIGHTSPAN™**  
SC100 BACKBOX



## APPLICATION DIAGRAM ETHERNET TO FIBRE



LIGHTSPAN SC100 Backbox is a compact unit design to fit inside IP camera housings, backbox fittings, or equipment cabinets, with all connectors on one side to suit this type of installation. The Backbox unit is most commonly used at the camera end with a standard SC100 unit at the base end.

However, LIGHTSPAN SC100 Backbox and standard LIGHTSPAN SC100 unit may be used in any combination. At the camera end, the LIGHTSPAN unit (of either type) has a wide input power range and can share the camera power supply, to simplify installation and reduce cost.

## INSTALLATION STEPS

1. Connect the Fibre cable to the LIGHTSPAN SC100 Backbox at the Camera end.
2. Connect an Ethernet cable from the LIGHTSPAN SC100 Backbox to the RJ45 port on the Camera.
3. Connect the LIGHTSPAN SC100 Backbox to the Power Supply at the Camera end.
4. Connect the Fibre cable to the LIGHTSPAN at the Switch end.
5. Connect an Ethernet cable from the Switch to the RJ45 port on the LIGHTSPAN at the Switch end.
6. Connect the LIGHTSPAN to the Power Supply at the Base end.

## TECHNICAL SPECIFICATIONS

<b>POWER</b>	
Connector	Detachable screw terminal
Supply voltage	8-57 volts DC or 20-28 volts AC
Supply current	100mA (12V), 50mA (24V)
<b>FIBRE INTERFACE</b>	
Socket	SC Duplex
Cable	Multimode optical fibre (OM1 etc.)
Rate	125Mbps 100Base-FX
Wavelength	1310nm
Range	up to 2,000m [1.24miles]
<b>ETHERNET INTERFACE</b>	
Connector	RJ45 copper Ethernet connector
Cable	Patch or crossover, auto-detected
Rate	100Base-TX full-duplex only
<b>PHYSICAL   ENVIRONMENTAL</b>	
Dimensions (mm)	<b>L59mm, W67, H22</b>
Weight	73g [2.6oz]
Compliance	BS EN 50121-4 (rail)
Operating temperature	-10°C to 70°C [14 °F to 158°F]
Relative humidity	85% non-condensing
Mounting	Integral mounting bracket