

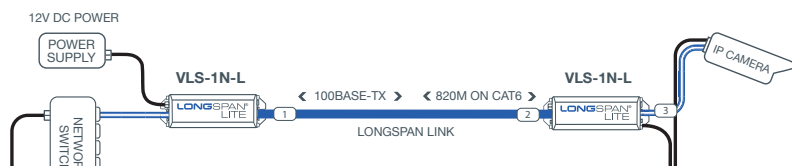


QUICKSTART GUIDE

LONG RANGE ETHERNET
LONGSPAN®
LITE

LONG RANGE ETHERNET

ETHERNET DATA ONLY APPLICATION DIAGRAM



LONGSPAN LITE CAPABILITIES

- LONGSPAN Lite can deliver an unrestricted full-duplex 100Base-TX connection up to 820m on Cat6 or up to 600m on Cat5e network cable.
- A 10Base-T connection can be achieved up to 1050m on Cat6. See LONGSPAN Lite datasheet for details.
- LONGSPAN Lite is fully self-configuring, featuring remote diagnostic LEDs and an extended temperature rating -40°C to 70°C.

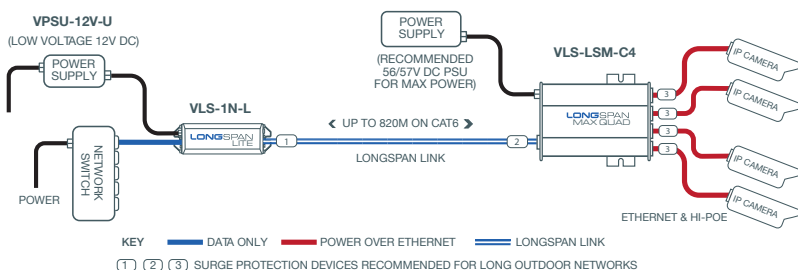
POWER INPUT

- LONGSPAN Lite must be powered externally (i.e. not via POE).
- LONGSPAN Lite is normally powered by a 12V DC source but can accept a wide range of power inputs: 8V-57V DC or 20V-28V AC.
- Please observe the correct polarity on the green 2-pin screw terminal connector when using DC power sources.
- The correct polarity is shown on the product top label.

INSTALLATION NOTES

- Standard Cat5e or Cat6 cable and RJ45 connectors should be used.
- LONGSPAN Lite supports both patch and crossover cables. Patch wiring (straight through connection) is recommended.
- LONGSPAN devices may also be used with other twisted pair cables* as follows:
 - 4-pair cable:** 10Base-T/100Base-TX with standard Cat5e / Cat6 pin-out.
 - 2-pair cable:** 100Base-TX performance can be achieved on 2 pairs, where pins 1 & 2 are used for data and pins 7 & 8 are used for POE.
 - 1-pair cable:** 10Base-T/100Base-TX performance can be achieved on 1pair, where pins 1 & 2 are not crossed-over.
- LONGSPAN Lite extended network link setup and configuration is fully automatic.
- LONGSPAN Lite Ethernet ports should be connected to 100Base-TX or 10Base-T Ethernet compatible equipment.
- LONGSPAN Lite extended network ports should only be connected to other LONGSPAN extended network ports. Devices are always used in pairs.
- LONGSPAN Lite is data-compatible with LONGSPAN Base & Camera devices (POE models) but does not accept or transmit POE.
- When connecting LONGSPAN devices on cables over 600m or over cables with four or more joins (couplers, outlets, patch panels) on-site testing is recommended.
- Please refer to your regional Veracity Technical Support team for help & advice.

**Stated performance will be achieved where twists/metre and cable length permits, otherwise LONGSPAN will default to 10Base-T performance.*



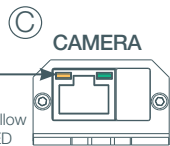
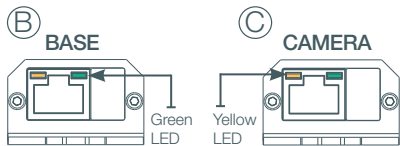
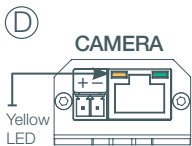
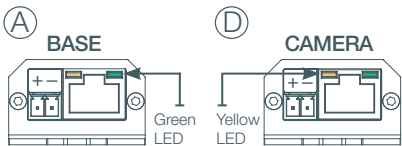
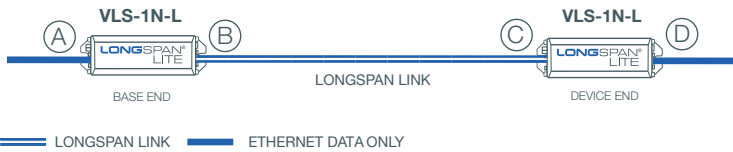
ETHERNET AND LONGSPAN LEDS

The tables below show the Ethernet and LONGSPAN Lite interface ports status LEDs.

The green LONGSPAN LED may blink quickly while connecting.

For extremely long runs, it may take a few seconds to optimise the link.

For more detailed connection information please refer to the current LONGSPAN datasheet on www.veracityglobal.com



ETHERNET LINK (A) (D)

ETHERNET LEDS	FUNCTION
RJ45 Green On	Power Power Good
RJ45 Yellow On Flash	Link / Activity Link Established Network Activity

LONGSPAN LINK (B) (C)

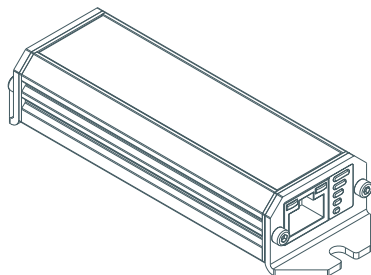
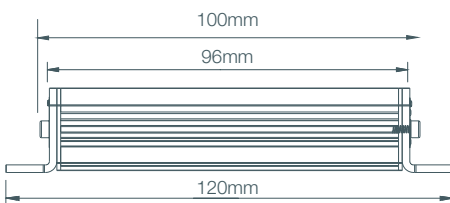
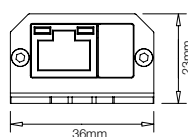
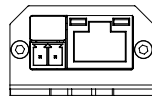
LONGSPAN LEDS	FUNCTION
RJ45 Green On Flash Blink	Power 100Mbps 10Mbps No Link
RJ45 Yellow On Flash	Link / Activity Link Established Network Activity

LARGER SYSTEMS

For high channel count or high-density applications, LONGSPAN Lite units may be rackmounted in the VLS-1U fascia plate to support up to 24 units in 1U. (See LONGSPAN Lite datasheet).

A variety of Veracity power supply options are available for larger centralised installations. Please see datasheets.

LONGSPAN DIMENSIONS



SURGE PROTECTION

Any LONGSPAN network design for outdoor or external sections must incorporate the appropriate level of surge protection to avoid invalidation of warranty due to electrical storm damage. It is the responsibility of the system installer to ensure the correct level of surge protection.

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.

This Device Complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

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Veracity's Authorised Representative in the EU (as required by EU law for CE marked goods) is: Comply Express Unipessoal Limitada, StartUp Madeira, EV141, Campus da Penteada, 9020 105 Funchal, Portugal.



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