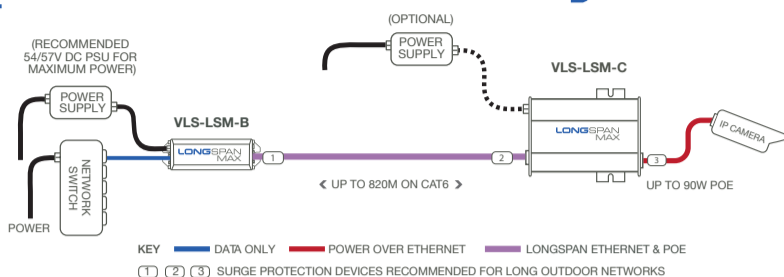




## [ QUICK START GUIDE ]

 HI-POE ETHERNET EXTENDER  
**LONGSPAN™**  
**MAX**

## [ LONG RANGE ETHERNET &amp; Hi-POE ]



Connect a LONGSPAN Max Base to a LONGSPAN Max Camera and then to a POE camera, or other POE device.

CAT6 cable is recommended for increased POE delivery at distance.

In this configuration, the LONGSPAN Max Base unit must be powered by a separate Veracity 54-57V DC power supply for maximum power.

(Veracity PSU options shown below).

The LONGSPAN Max Base unit can output a maximum of 90W POE depending upon the optional PSU.

LONGSPAN Max Base can be used to power a LONGSPAN Max Camera or a LONGSPAN Max Quad at the device end.

See LONGSPAN Max Base and Max Camera datasheets tables for distance versus power levels.

## [ POWER SUPPLIES ]

PRODUCT CODE	DESCRIPTION	POWER
VPSU-POE-100	54-57V DC PSU	100W
VPSU-POE-240	54-57V DC PSU	240W

## [ COMPATIBILITY ]

LONGSPAN Max models are compatible with all of the standard LONGSPAN Base 8, LONGSPAN Base, Camera and Lite models.

For full details of distances, available POE and the recommended power supplies, please see the tables in the LONGSPAN Max Application Notes and Veracity Datasheets.

## [ POE POWER BUDGET ]

The Veracity 54-57V DC power supplies provide maximum range and Hi-POE power budget at the camera end.

For maximum POE delivery, especially when using with a LONGSPAN Max Quad, the LONGSPAN Max Camera end device can be powered locally with a Veracity 54-57V PSU of up to 240W.

## [ LARGER SYSTEMS ]

For multiple channels, up to 24 LONGSPAN Max Base units may be rack-mounted in a VLS-1U fascia plate. Alternatively, LONGSPAN Base 8 may be used giving up to 32 channels in 1U with four units.

Veracity 54-57V DC rackmount power supplies are available for larger installations with multiple base devices.

## [ INSTALLATION NOTES ]

Standard CAT5e or CAT6 cable should be used. CAT6 will enable maximum distance and power.

Patch or crossover cables may be used to connect devices to the LONGSPANS. However, patch wiring (straight through) is recommended for the LONGSPAN to LONGSPAN connection.

If the LONGSPAN Max device at the camera end is locally powered, then a LONGSPAN Lite could be used at the base end, instead of a LONGSPAN Max Base unit.

When connecting LONGSPAN Max on cables over 600m or over cables with four or more joins (couplers, outlets, patch panels) on-site testing is recommended. Application Notes are available from [www.veracityglobal.com](http://www.veracityglobal.com)

LONGSPAN Max extended network link set-up and configuration is fully automatic.

LONGSPAN Max Ethernet ports should be connected to 100Base-TX Ethernet compatible equipment.

LONGSPAN extended network ports should only be connected to other LONGSPAN extended network ports. Devices are always used in pairs.

## [ SURGE PROTECTION ]

Any LONGSPAN Max network design for outdoor applications 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 is in place. See also *surge protection statement below and LONGSPAN Max Application Notes.*

**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.

**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.

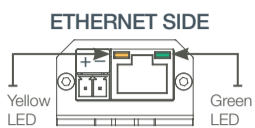
## ETHERNET AND LONGSPAN MAX LEDS

The tables below show the LED status for the Ethernet and LONGSPAN Max ports on the LONGSPAN Base device.

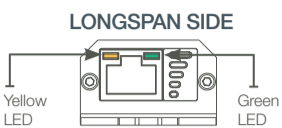
The green LONGSPAN Max LED may blink quickly while connecting.

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

For more detailed connection information refer to the current LONGSPAN Max datasheet on [www.veracityglobal.com](http://www.veracityglobal.com)



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



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

## SAFEVIEW™ LEDS

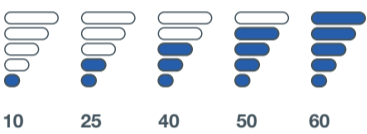
SAFEVIEW™ warning and error codes are very rarely displayed in typical installations.

However, they can assist you to quickly resolve any installation issues that may occasionally arise.

The maximum POE power available for connected devices is detected and displayed automatically.

SAFEVIEW™ LEDS display status and diagnostic information for both the Base and the Camera end LONGSPAN Max units (i.e. the information is the same at each end).

## SAFEVIEW™ BLUE POE STATUS LEDS



In normal operation, the SAFEVIEW™ LEDS display power available in flashing or steady blue.

- ON** = POE enabled to camera.
- FLASH** = POE available but not enabled, no compliant device detected.

Blue LEDs show the POE power available for the camera(s), or other POE-compliant device(s) in watts. The power level is displayed after the LONGSPAN Max Camera side unit has powered up.

If the power displayed is less than your camera or cameras require, then consider using a local Veracity 54-57V DC PSU to power the LONGSPAN Max device at the camera end.

## SAFEVIEW™ RED ERROR CODE LEDS



If LONGSPAN MAX detects an error or fault, a diagnostic code will flash red on SAFEVIEW™

POE power draw has exceeded limit. Power source must be upgraded.



Voltage too low, POE disabled. Check voltage and polarity of power supply.



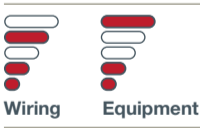
POE to camera refused or disconnected due to error as indicated.



POE over LONGSPAN MAX refused or disconnected due to error as indicated.



POE over LONGSPAN MAX enabled but no link. Check cable length, wiring, and equipment.



Cable wiring error / inferior equipment detected, connection refused.

## LONGSPAN MAX (BASE) DIMENSIONS

