



QSW-16\24 Ethernet Switch - 3rd party Fibre SFP Support



INTRODUCTION

Vista's QSW-16\24 CCTV Ethernet switches support a single fibre uplink via the **SFP** 1Gbit/s standard. All that is required is the purchase and fitting of a pair of identical SFPs (one each end) according to your installed fibre and application – refer to the section **VARIOUS SFP STANDARDS** below.

Fibre provides advantages over copper 1Gbit/s but involves increased cost and specialist skills to “run”;

- Where vastly increased distances are required – 550mtrs upwards towards 160km
- Where certain installation sites and cable routing via copper would risk induced\inducing voltages etc
- Where explosive environments demand it

VARIOUS SFP STANDARDS!

For the fibre aspect of an SFP there are many considerations and options that need to be considered before you chose and purchase – strongly suggest purchasing identical SFPs in matched pairs;

- **Multi-mode** or **single-mode** – to match the fibre that has been installed\run-in!
- **Wavelength** and **distance** supported\required – some examples;
 SX – 850 nm, max 550mtr **LX** – 1310 nm, max 10 km **EX** – 1310 nm, max 40 km **ZX** – 1550 nm, max 80 km
- **Single fibre** core or **duplex**
- **Fibre Connection Type** – normally **LC** duplex or single (LC duplex example below)

INSERTING SFP

Simply power down the QSW16\24 at each “end”, insert the SFPs and the fibre connections, then power up.



SFP Module – duplex LC fibre



SFP installed – note copper OR fibre, not both!



SUPPORTED SFP MODULES

The following have been tested;

Manufacturer	Model	Norbain Code	Fibre	Wavelength	Patch	Manufacturers distance
D-link	DEM-311GT	0610820	2-core multi-mode (62.5µm/50µm)	850nm	Duplex LC	220-550mtrs