

## FCW5/FCW9 Optical Multiplexer/De-multiplexer

Coarse Wave Division Multiplexing is a useful technique to maximise the bandwidth capacity of fibre. It allows up to 5 (9 for the FCW9) different wavelengths of light to be mixed into a single fibre. Most CWDM modules operate at wavelengths between 1470nm and 1610nm, but both the modules have an additional option for supporting wide-band, allowing for 5 and 9-way capacities, rather than the more common 4 and 8-way. Both modules are bi-directional, so a single pair of FCW5 modules at each end of a fibre link could, for

example, handle 4 transmission paths in one direction and one in the reverse direction. The optical components are mounted on the rear and inserted from the rear of the rack. The card element is then inserted from the front in the normal way, which tells the system that the slot is occupied and identifies the type of card in the same way as active openGear cards. Although this single slot passive device has no control or monitoring functions, it still confirms its presence to Dashboard Control Systems.

## Features

- Passive Coarse Wavelength Division Multiplexer/de-multiplexer
- Available as 5-way or 9-way (FCW9)
- Bi-directional
- Operates over wavelengths between 1260nm & 1610nm

## Specifications

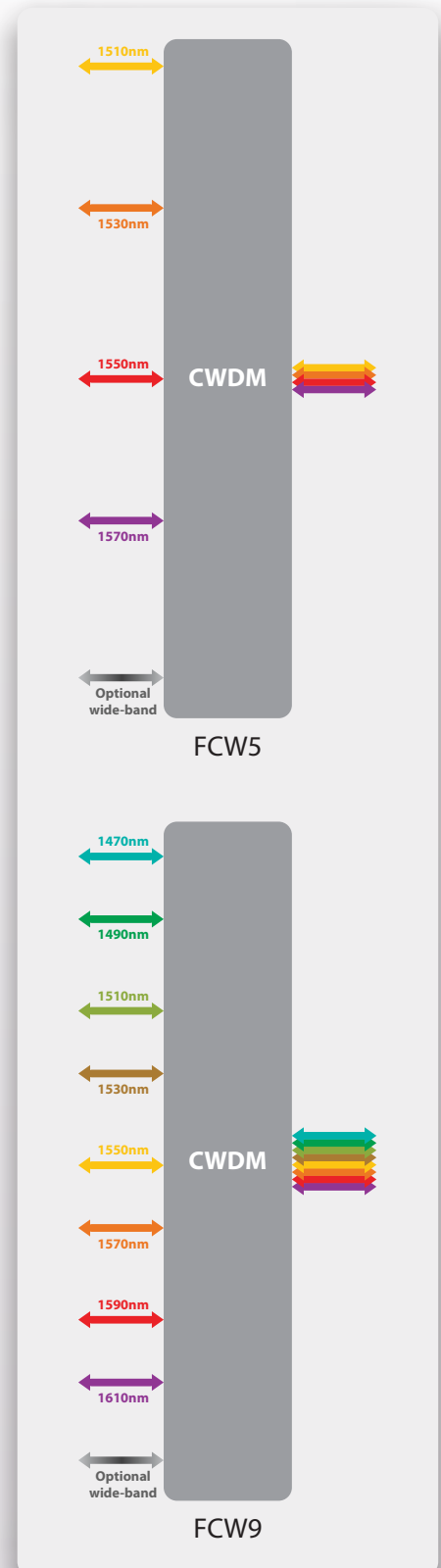
### Optical

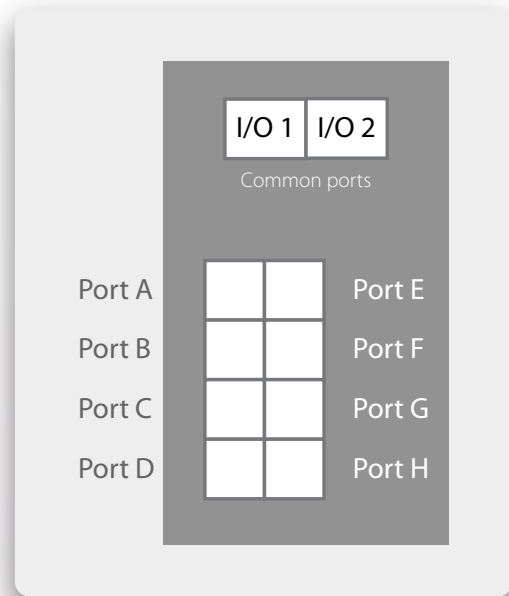
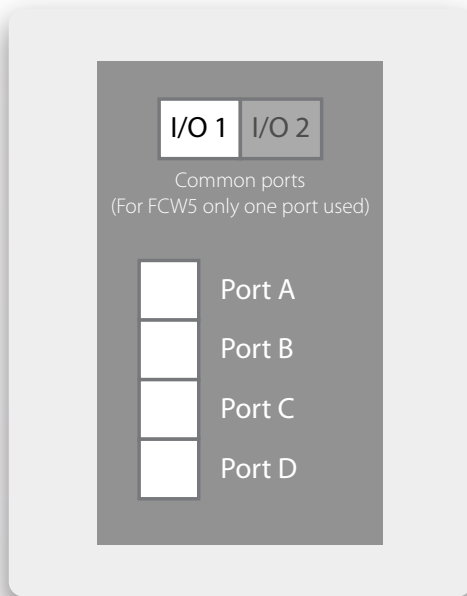
Connector	LC
Wavelengths:	1510nm, 1530nm, 1550nm, 1570nm 1470nm, 1490nm, 1510nm, 1530nm, 1550nm, 1570nm, 1590nm, 1610nm
Wide-Band*:	1270nm, 1290nm, 1310nm, 1330nm, 1350nm, 1370nm, 1390nm, 1410nm, 1410nm, 1450nm,
Tolerance:	1310nm +/- 10nm 1470nm - 1610nm +/- 3nm
Insertion Loss:	FCW5: 2.7dB (max) FCW9: 4dB (max)
Isolation:	20dB (min)
Directivity:	55dB (min)
Fibre type:	Single Mode

\* Option for one wide-band wavelength per card.

Please note: No rears need to be specified for this card since the rear is integrated with the card. The optical components are mounted on the rear and inserted from the rear of the rack. The card element is inserted from the front in the normal way. This tells the system that the slot is occupied and identifies the type of card in the same way as active openGear cards.

Required wavelengths to be specified when ordering.





I/O 2 used for wideband option

### Ordering Information

FCW5 5 Way CWDM, no rear is required, it is supplied with this card.  
FCW9 9 Way CWDM, no rear is required, it is supplied with this card.



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