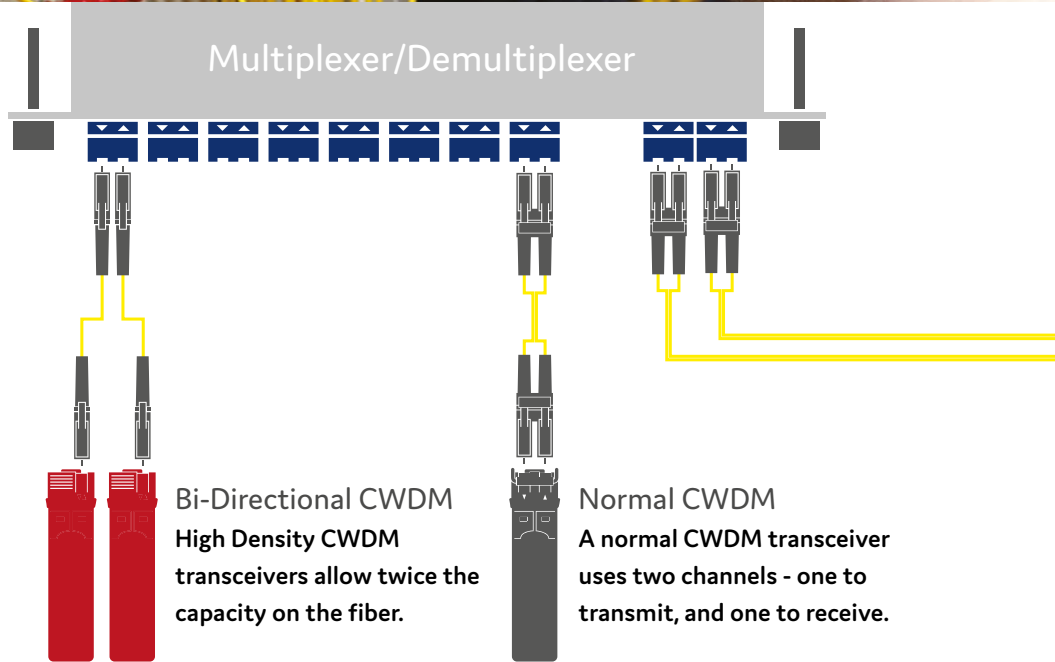




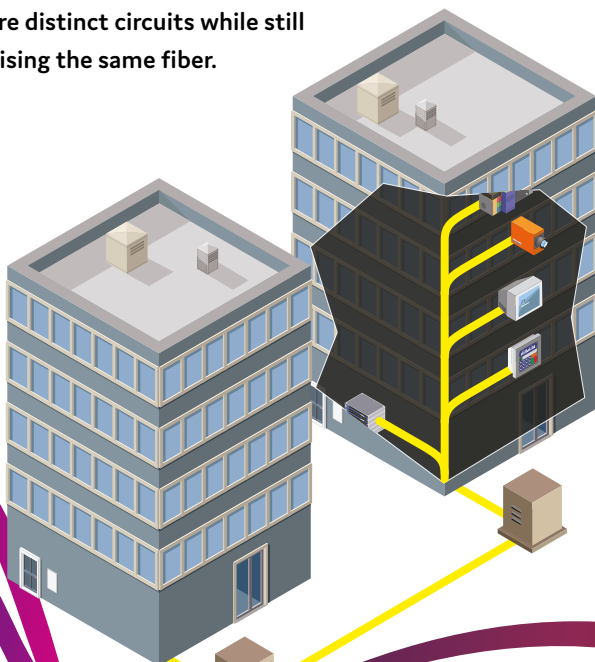
**Get More Out of Your Multiplexer**  
with the new High Density Bidirectional CWDM Transceiver from ProLabs.

ProLabs new High Density Bidirectional transceivers can provide two times the circuit capacity over your existing CWDM infrastructure. By utilising each channel individually for bidirectional transmission, you can leave existing infrastructure in place, only replacing transceivers at each output point.

This is ideal for expanding building & campus networks, carrier Ethernet and wireless backhaul/ fronthaul - all using your existing core infrastructure.

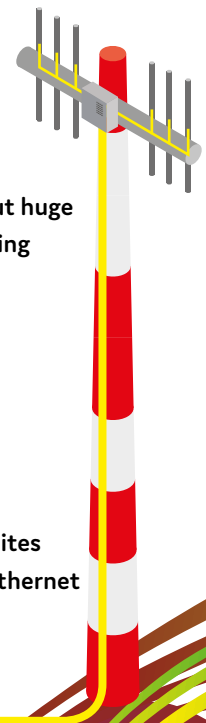


Enterprise and Campus  
Interconnect a larger network with more distinct circuits while still utilising the same fiber.



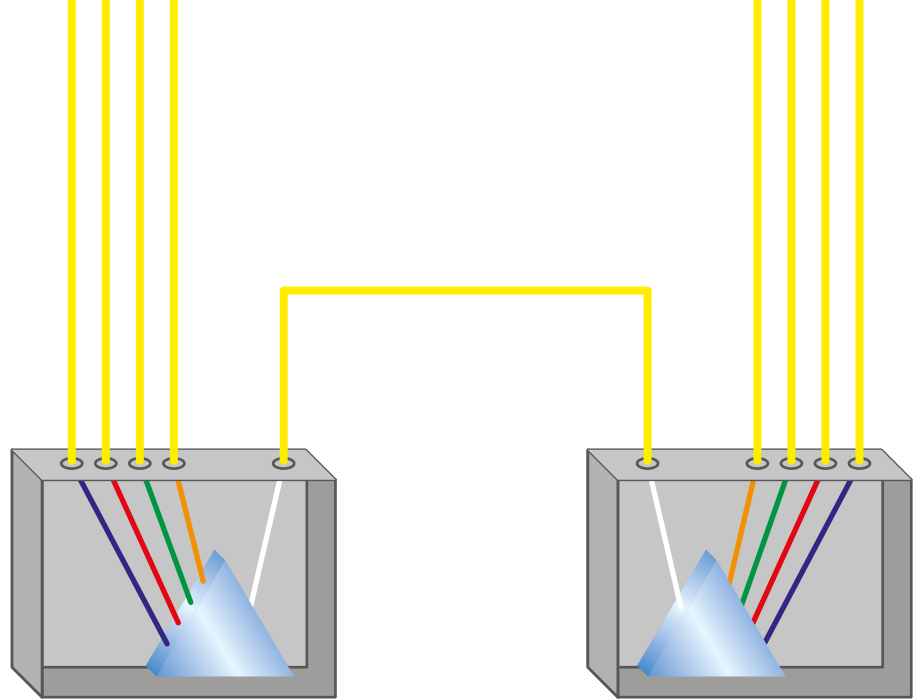
**Wireless Fronthaul**  
Enable more circuits without huge increases to weight or running additional cable.

**Wireless Backhaul**  
Allow a greater number of sites from your existing carrier Ethernet network.

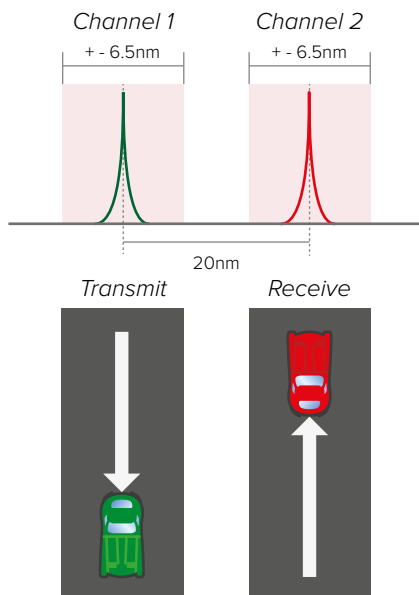


## What is WDM?

Wave Division Multiplexing (often referred to as WDM for short), is when optical transmissions are sent at different wavelengths along the same fiber. The principle is like light through a prism - you mix your light at one end (multiplexing), and then un-mix them at the end (demultiplexing). The actual technology is more complicated than this, involving the ability to do this to single wavelengths along the transmission route.



## Traditional CWDM

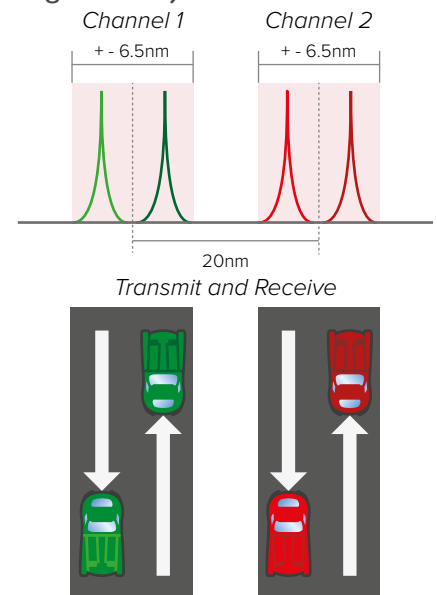


## How is This Different?

Traditional CWDM uses two channels with a 13nm window and 20nm spacing. However, modern transmission methods are capable of fitting two distinct frequencies within this 13nm window.

Effectively, this doubles the amount of traffic you can send through each channel - whilst still being compatible with your existing CWDM infrastructure such as multiplexers and fiber.

## High Density CWDM



Would you like to know more?

✉ [salesorders@prolabs.com](mailto:salesorders@prolabs.com)

☎ +44 1285 719 600

☎ +1 952 852 0252

🌐 [www.prolabs.com](http://www.prolabs.com)

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