

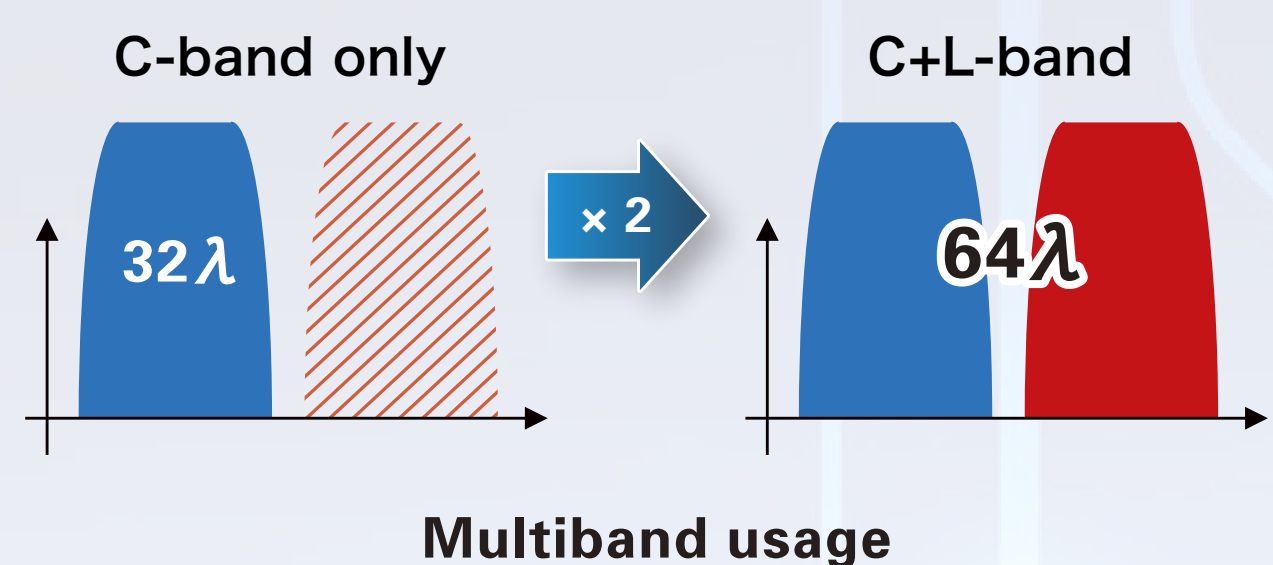
Multi-band ROADM Technology

Motivation

- High baud rate signal that occupies wide bandwidth reduces available number of channels in a band.
- Adoption of C+L band is attractive to keep flexibility in ROADM setting, which increases the number of channels.

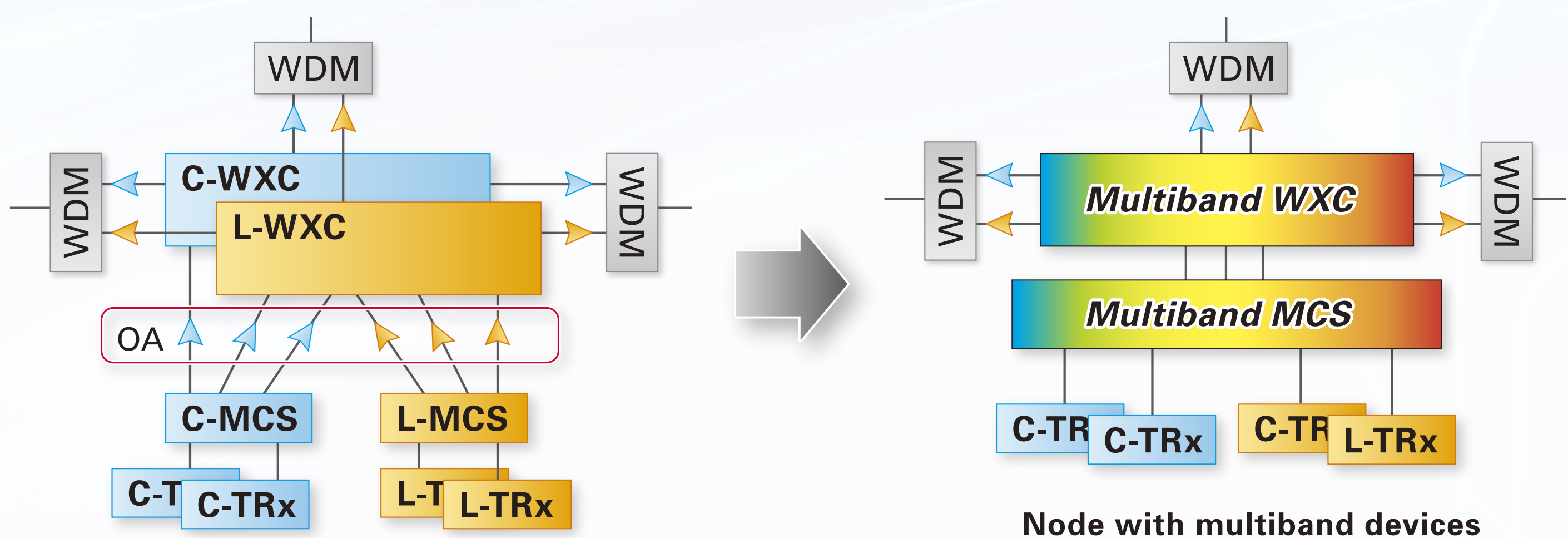
Bit rate	100 Gbps	400 Gbps	800 Gbps
Baud rate	32 Gbd	64 Gbd	130 Gbd
Ch spacing	50 GHz	75 GHz??	150GHz??
No. signals	96	64	32
Spectra			

Channel number change on baud rate



Simple Multiband ROADM

- Seamless Multi-band switches simplify the node configuration as well as operation.
- Multiband MCS functions as a “band aggregator”.
- Low loss feature of switches removes amplifiers for MCS loss compensation.



Node with conventional devices

Node with multiband devices

ROADM node configuration

