

# AJC 10G DWA (DIRECT WAVELENGTH ACCESS) CAPACITY

## TECHNICAL SUMMARY

### General

- 10G DWA (Direct Wavelength Access)
- The direct connection of the Wavelength Signal between the customer 10G equipment and the AJC 10G Submarine Line Terminal Module (“SLTM”) which allows the transmission of a Wavelength Signal between the Network Interfaces.

### System Parameters

- Transmission Capacity
- 9,953.280Mbit/s (STM-64) per wavelength
- Protection Switching (HS Side)
- 1:n wavelength protection
- Protection Switching (LS Side)
- Nil Span or Ring Protection
- Preemption
- Nil (Non-Preemptive)

### 10G DWA Interface

- Interface Type
- ITU-T S64.2b (P1S1-2D2b) per ITU-T G.691
- Bit Rate
- 9.95328 Gbit/s
- Line Coding
- NRZ
- Maximum Transmission Distance
- 40 km (nominal) S64.2b per ITU-T G.691
- Wavelength
- 1530 - 1565 nm
- Transmit Power Level
- +2 to -1 dBm per ITU-T G.959.1
- Receive Power Level
- -14 to -1 dBm per ITU-T G.959.1
- Error Performance
- BER <= 1E-12
- Processing of Overheads
- Clear Channel \*

\* No processing or modification of SDH overhead bytes by AJC end to end system.

### Availability

- Intrinsic Equipment Design
- Target 99.993% available (one outages of up to four hours per 72 months), excluding wet segment events. 1:n wavelength redundancy should increase availability to essentially 100%.