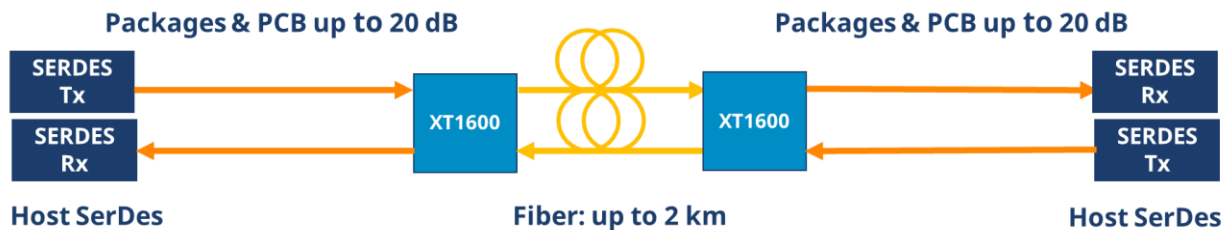![Nubis Communications logo]

XT1600 High-Density Linear Optical Engine

- ▪ 1.6 Tbps full-duplex capacity in 15 mm x 15 mm LGA socket

- ▪ Linear optimized for up to 20 dB electrical channel loss with low latency

- ▪ 1311 nm optical signal compatible with OIF's ELSFP external laser sources

- ▪ Un-retimed electrical signals compatible with OIF CEI-112G-LINEAR

- ▪ Multi-fiber pigtails support flexible fiber breakout from 1 to 16 lane groups

  - o e.g. 100G-DR1, 400-DR4, 800G-DR8, 1.6T fat pipe

- ▪ Flexible per lane data rate from 2.5Gbps NRZ – 112 Gbps PAM4

  - o e.g. PCIe link-up from 1.0 to 6.0

Eases system design constraints with generous electrical link budget

- ▪ Supports large systems with long traces with generous electrical link budget
- ▪ Supports dense card configurations with small footprint, low power

Key Technologies

- ▪ 2D fiber attach for linear and areal bandwidth density scaling
- ▪ Co-optimized Driver, TIA and PIC offsets channel loss with minimized noise
- ▪ Designed to dove-tail with modern SerDes with lowest power consumption

![OIF PLL Interop Demo OFC 2025 logo]

Come see more live demos at OFC in MR3524

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