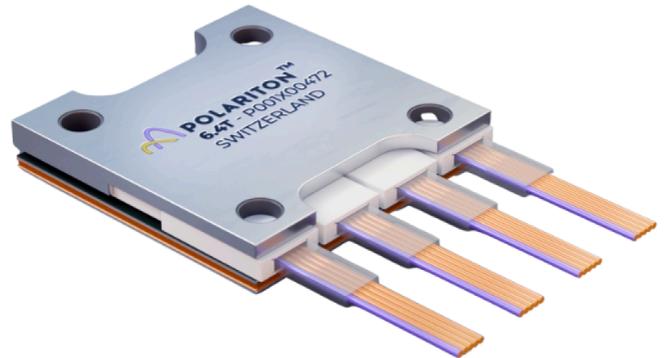


# 6.4T+ Optical Engine for CPO

## TOE-400G Tx Optical Engine

This visionary product leaps the market with unprecedented performance and bandwidth. This transmit optical engine supports up to four plugged optical receptacles, each capable of accommodating 4 lanes, for a total of 16 lanes and 6.4T data transmission in fingertip size package. This provides industry's leading channel density for demanding OBO, LPO and CPO. An optimized integrated driver RF performance through refined signal paths, lower drive voltages and demands less electrical power per transmitted bit.



### Key Features

-  145 GHz EO Bandwidth
-  4, 8, 12 or 16 lanes
-  Optical output power up to 4 dBm
-  0.5 pJ/bit (driver and EOM)

6.4T conceptual image

## Performance Specifications

	<b>3.2T</b>	<b>6.4T</b>	<b>12.8T</b>
Peak wavelength	1310 nm	1310 nm	1310 nm
Number of lanes	8 (2 receptables used)	16 (4 receptables used)	32 (coming soon)
Power dissipation (driver+EOM+ control electronics)	0.5 pJ/bit = 1.6 W (8 lanes)	0.5 pJ/bit = 3.2 W (16 lanes)	0.5 pJ/bit = 6.4 W (32 lanes)
Optical input power per receptable	19 dBm	19 dBm	tbd
Optical output power per lane (AOP)	-0.9 ... 4 dBm	-0.9 ... 4 dBm	-0.9 ... 4 dBm
Optical modulation amplitude (OMA)	1.2 ... 4.2 dBm	1.2 ... 4.2 dBm	1.2 ... 4.2 dBm
Dynamic extinction ratio (dER)	>4 dB	>4 dB	>4 dB
TDECQ	<3.4 dB	<3.4 dB	<3.4 dB
Bit error rate (BER)	<1E-6	<1E-6	<1E-6