

Packaged modulators

Fully packaged electro-optic modulators for system demonstrations, proof-of-concept development and benchtop testing of the SOH technology utilizing an user-friendly form factor.

SilOriX packaged high-speed modulators for IMDD (O- or C-band operation)

Fully packaged silicon – organic – hybrid modulator modules featuring

- Low V_{π} enabling driver – less operation
- High bandwidth $\gg$ O – and C – band operation
- Single ended configuration (differential configuration available soon)



Specifications

	GEN 1	GEN 2 (AVAILABLE Q4/26)
Drive voltage	< 1 V	< 1 V
Electro-optic bandwidth	$f_{3dB} \leq 80 \text{ GHz}$	$f_{3dB} \leq 100 \text{ GHz}$
Supported data rates	> 180 GBd PAM4	224 GBd PAM4
On-chip optical loss	< 10 dB	< 8 dB
Operating temperature*	$-20 \text{ }^{\circ}\text{C} < T_{op} < 60 \text{ }^{\circ}\text{C}$	$-20 \text{ }^{\circ}\text{C} < T_{op} \leq 85 \text{ }^{\circ}\text{C}$
Maximum optical input	< 20 dBm	< 20 dBm
Electrical connection	1 mm connector	1 mm connector
Lanes	1	1