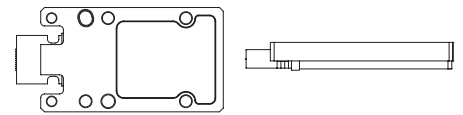
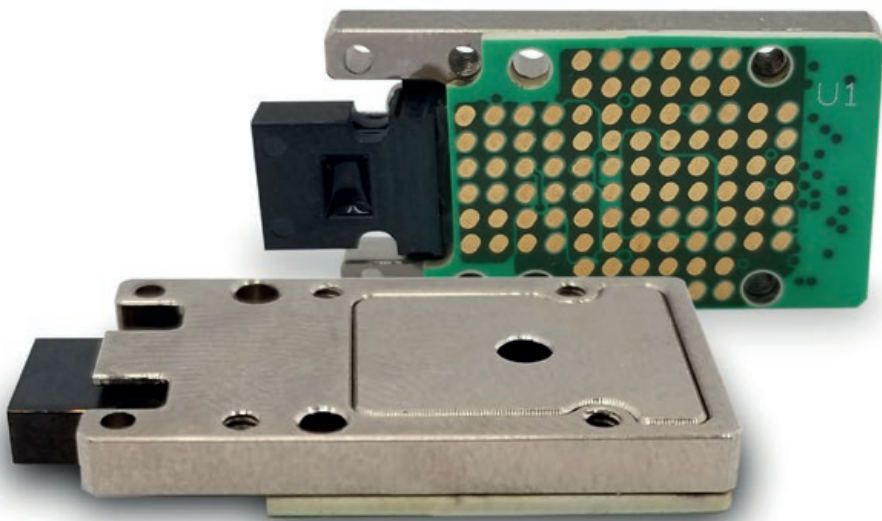


The most rugged high-performance embedded parallel optics.



Real size for LightABLE28 LL 100G.

LightABLE28 LL 100G

Key advantages

- **Performance:** 28 Gbps/lane from -40°C to 85°C .
- **Small:** As low as 4.5 mm high (module and interposer)
- **Rugged:** MIL-STD 883 shock and vibration qualified
- **Sealed:** Moisture and thermal shock resistant
- **Storage temperature:** -57°C to 125°C
- **BER:** As low as 10^{-12}
- **Sensitivity:** -9 dBm
- **Low power consumption:** 180 mW/lane

LightABLE28 LL product summary

The *LightABLE28*™ LL low profile screw-in module (4.5 mm) mounts to the board via an LGA connector. It is offered as a (4+4)-lane transceiver that operates at 28 Gbps per lane from -40°C to 85°C at ultra-low bit error rates of 10^{-12} . The optical module includes equalizers and pre-emphasis to compensate long traces; these features can be turned off for short traces (less than 10 cm) to reduce power consumption. The *LightABLE28* LL also offers CDR functions.

Configurations

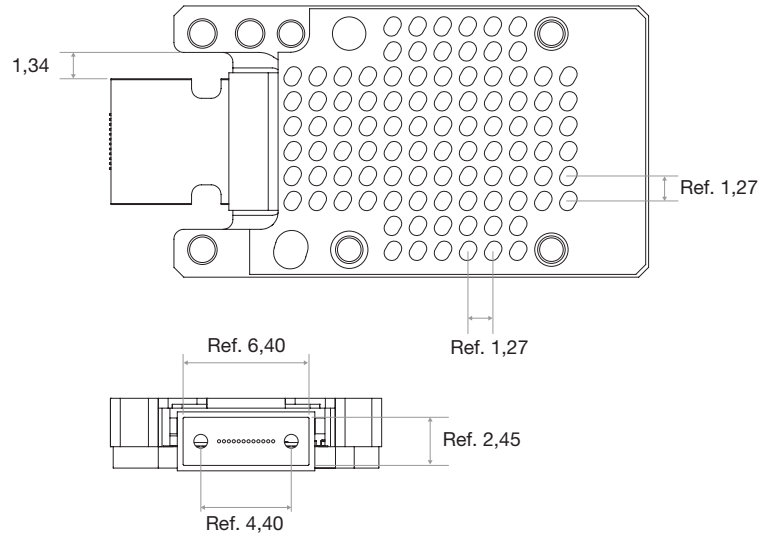
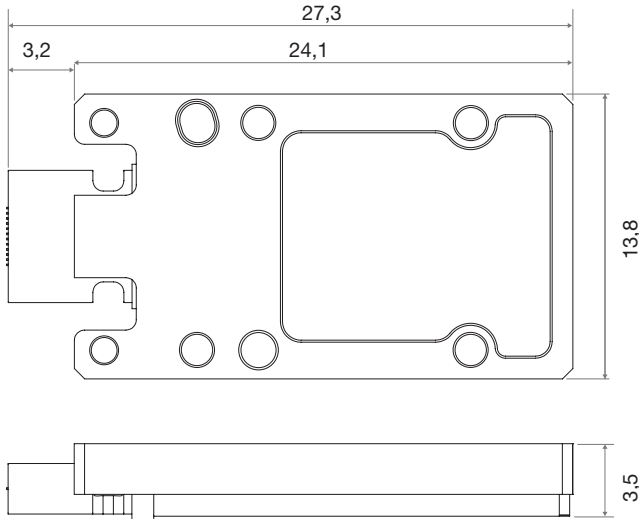
- 4TRX (100G, full duplex) **NEW!**

Applications

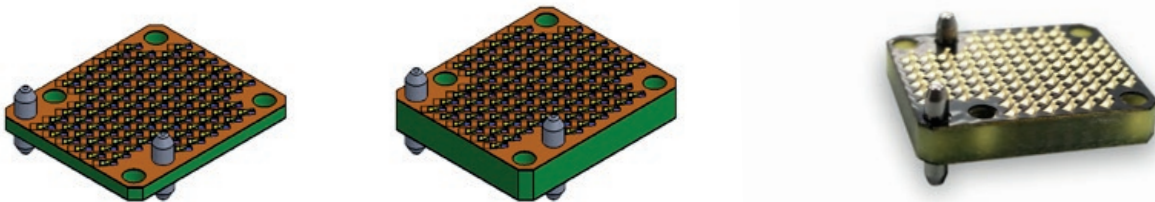
- All digital AESA radars
- High I/O density, high BW communication links
- ISR embedded systems

100G LightABLE28 LL features

- 4 TX + 4 RX lane per device (100G, full duplex)
- Multimode 850 nm wavelength laser
- Over 100 m reach on OM3 ribbon fiber
- Standard MT parallel fiber connector
- RoHS
- Equalizer, pre-emphasis, adjustable output
- Monitoring: LOS, RSSI, temperature etc.
- Integrated microcontroller
- Available in industrial (−40 °C to 85 °C) grade temperature range



Drawing of LightABLE28 LL 100G (measurements given in mm).



LGA interposers are available in different heights.

LightABLE28 LL ordering information

Part Number	Product Description	Lanes	Bandwidth (Gbps/lane)	Sensitivity (dBm)	Mounting	Operating Temperature (°C)
LLX04P42532101	LightABLE28 LL 4TRX transmit/receive	4+4	28	−9	LGA	−40 to 85

ACCESSORIES

415-00012	2.74 mm 96-positions nLGA interposer kit (Interposer + screws)
415-00015	1 mm 96-positions nLGA interposer kit (Interposer + screws)

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Reflex Photonics is certified to ISO 9001

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