

Optical Transceivers

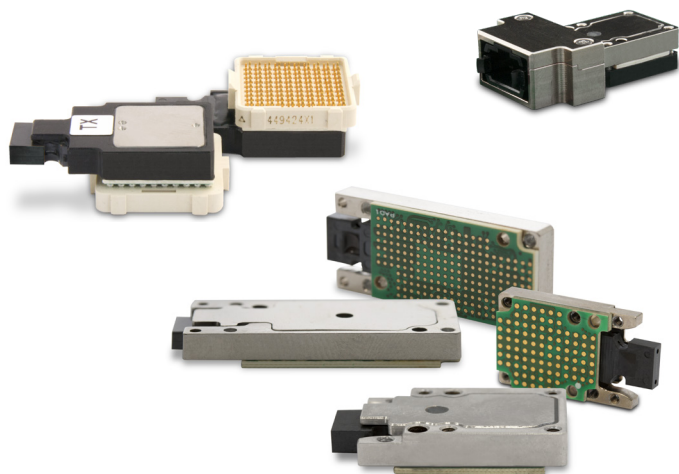
The most rugged, high-performance, embedded, parallel optics for defense, space, commercial aerospace, and industrial markets.



LightABLE™

LightABLE 10G LM and LL Series

Rugged transceivers for defense applications



Key advantages

- **Rugged:** Qualified per MIL-STD 883 for shock and vibration
- **Sealed:** Moisture and thermal shock resistant
- **Operating temperature:** -40 °C to 85 °C
- **Storage temperature:** -57 °C to 100 °C
- **Performance:** up to 10.3125 Gbps/channel over a recommended operating temperature range of -40 °C to 85 °C
- **Proven:** Used in many defense applications
- **Power consumption (mW/channel):** ≤127*

* Power dissipation values are product-specific—refer the corresponding datasheet for exact values.

	LM	LL
Height (mm)	<5 (SMT)	5.5**
Sensitivity (dBm for BER 10 ⁻¹²)	-12 or -9	-12 or -9

** with interposer

Applications

- Sensor connectivity including all-digital AESA radars
- High I/O density, high BW communication links
- C5ISR embedded systems
- CCD/CMOS imaging sensor
- FPGA SerDes application

These modules offer flexibility, light weight, high bandwidth, and forward compatibility.

Flexible mounting options

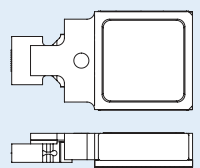
The low profile *LightABLE*™ 10G LM Series module can be mounted directly upon a high-speed printed circuit board via a MEG-array connector, whereas the *LightABLE* 10G LL Series low profile screw-in modules mount to the board via an LGA connector (interposer). All modules operate at up to 10.3125 Gbps per channel over a recommended operating temperature range of -40 °C to 85 °C at ultra-low bit error rates of 10⁻¹². The optical modules include equalizers and pre-emphasis to compensate for long traces; these features can be turned off for short traces (less than 10 cm) to reduce power consumption.

LightABLE 10G features

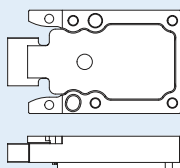
- Multimode 850 nm laser
- Over 100 m reach on OM3 ribbon fiber
- Standard MT parallel fiber connector
- Equalizer, pre-emphasis, adjustable output
- Monitoring: LOS, RSSI, temperature, etc.
- Integrated microcontroller

	LM	LL
Mounting	MEG-Array	LGA interposer

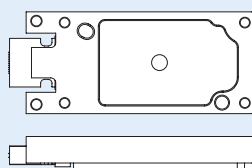
Module actual size



LightABLE 10G LM
4TRX, 12TX, and 12RX



LightABLE 10G LL
4TRX, 12TX, and
12RX



LightABLE 10G LL 12TRX

Configurations

10G LM Series

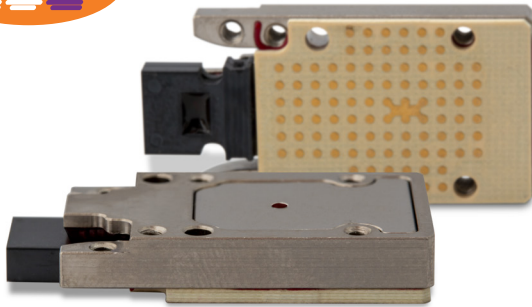
- 4 TRX (40G, full-duplex)
- 12 TX or 12 RX channel (120G, half-duplex)

10G LL Series

- 4 TRX (40G, full-duplex)
- 12 TX or 12 RX channel (120G, half-duplex)
- 12TRX (120G, full-duplex)

LightABLE 28G LL Series

High-speed rugged transceivers for defense applications



Key advantages

- **Small:** Less than 6 mm high (module and interposer)
- **Rugged:** Qualified per MIL-STD 883 for shock and vibration
- **Sealed:** Moisture and thermal shock resistant
- **Storage temperature:** -57 °C to 100 °C
- **Performance:** up to 28 Gbps/channel over a recommended operating temperature range of -40 °C to 85 °C
- **Power consumption (mW/channel):** <262*

* Power dissipation values are product-specific—refer the corresponding datasheet for exact values.

Applications

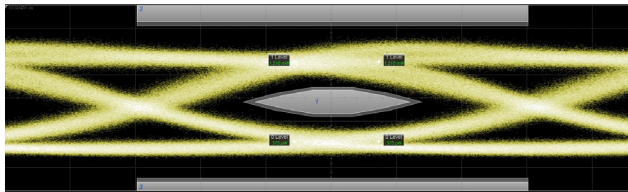
- Sensor connectivity including all-digital AESA radars
- High I/O density, high BW communication links
- C5ISR embedded systems

The low profile *LightABLE™* 28G LL Series module mounts to the board via an LGA connector (interposer). It is offered as either a four-lane transceiver (100G full-duplex) or as separate 12-channel transmitter and 12-channel receiver modules (300G half-duplex) that operate at up to 28 Gbps per channel.

The optical modules include clock and data recovery, equalizers, and pre-emphasis to compensate for long traces; these features can be turned off for short traces (less than 10 cm) to reduce power consumption.

LightABLE 28G LL Series features

- Multimode 850 nm laser
- Over 70 m reach on OM3 ribbon fiber
- Standard MT parallel fiber connector
- RoHS
- Clock and data recovery, pre-emphasis, and adjustable output
- Monitoring: LOS, RSSI, temperature, etc.
- Integrated microcontroller
- Attaches to system board with LGA interposers and screws

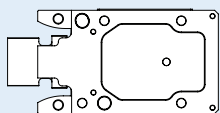


Typical optical eye of *LightABLE* 28G LL (6.5 ps per division)

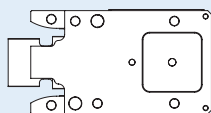


LGA interposer for *LightABLE* 28G LL

Module actual size



LightABLE 28G SL
4TRX



LightABLE 28G SL
12TX and 12RX

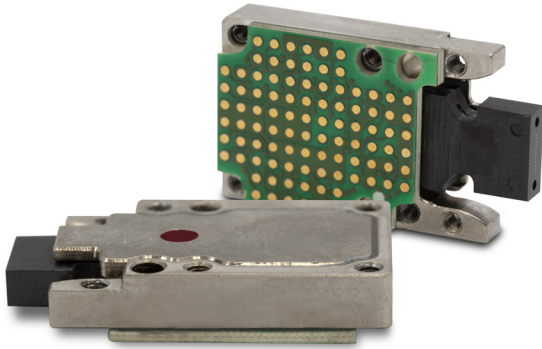
Configurations

- 4 TRX (100G, full-duplex)
- 12 TX or 12 RX (300G, half-duplex)

SpaceABLE®

SpaceABLE 10G SL Series

Radiation-resistant optical transceivers for space applications



Key advantages

- **Rugged:** withstand radiation doses >100 krad (Si) and qualified per MIL-STD 883 for shock and vibration.
- **Expected life:** up to 20 years.
- **Performance:** up to 10.3125 Gbps/channel over a recommended operating temperature range of -40 °C to 85 °C
- **Sensitivity:** -9 dBm for BER 10^{-12}
- **Power consumption (mW/channel):** <123*
- **Height (mm):** 5.5 (with interposer)

* Power dissipation values are product-specific—refer the corresponding datasheet for exact values.

Applications

- High-throughput communication satellites
- LEO satellite constellations
- GEO satellites (with extended lifetime option)
- Board-to-board and payload-to-payload connections
- High I/O density, high BW communication links

The low profile SpaceABLE® 10G SL Series screw-attached module mounts to the board via an LGA connector.

These modules are offered as a four-lane transceiver, a 12-channel transmitter, or a 12-channel receiver. All modules operate at up to 10.3125 Gbps per channel over a recommended operating temperature range of -40 °C to 85 °C at ultra-low bit error rates of 10^{-12} . The optical modules include equalizers and pre-emphasis to compensate for long traces; these features can be turned off for short traces (less than 10 cm) to reduce power consumption.

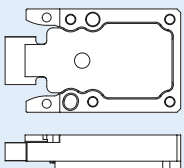
SpaceABLE 10G features

- Multimode 850 nm 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.

Space qualification tests summary

- **Proton testing:** total non-ionizing dose (TNID)
- **Heavy ion testing:** single event effect & latch-up (SEE and SEL)
- **Gamma Ray using Cobalt-60:** total ionizing dose (TID)
- **Random vibration:** NASA GEVS, GSFC-STD-7000A
- **TVAC:** vacuum < 5E-5 hPa
- **Outgassing:** ECSS-Q-ST-70-02C

Module actual size



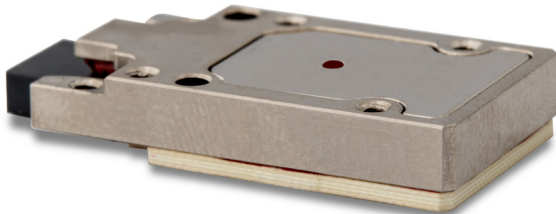
SpaceABLE 10G SL
4TRX, 12TX, and 12RX

Configurations

- 4 TRX (40G, full-duplex)
- 12 TX or 12 RX (120G, half-duplex)

SpaceABLE 28G SL Series

High-speed radiation-resistant optical transceivers for space applications



**Radiation
resistant**

Key advantages

- **Small:** less than 6 mm high (module and interposer)
- **Rugged:** withstand radiation doses >100 krad (Si) and qualified per MIL-STD 883 for shock and vibration.
- **Expected life:** up to 20 years
- **Performance:** up to 28 Gbps/channel
- **Link budget:** >7 dB with BER 10^{-9} (measured at 25.7 Gbps).
- **Power consumption (mW/channel):** <193*

* Power dissipation values are product-specific—refer the corresponding datasheet for exact values.

	4TRX	12TX/12RX
Operating temperature	-40 to 85	-10 to 75

Applications

- High-throughput communication satellites
- LEO satellite constellations
- GEO satellites
- Board-to-board and payload-to-payload connections
- High I/O density, high BW communication links

The SpaceABLE® 28G SL Series radiation resistant transceivers are engineered to withstand radiation doses >100 krad (Si). The SpaceABLE 28G SL low profile screw-attached module mounts to the board via an LGA connector. It is offered as either a four-lane transceiver (100G full-duplex) or as separate 12-channel transmitter and 12-channel receiver modules (300G half-duplex as a pair) that operate at up to 28 Gbps per channel from -40 °C to 85 °C at ultra-low bit error rates of 10^{-9} .

Furthermore, all our devices are tested following ECSS process and lot acceptance testing. Component pre-screening is offered for every manufacturing lot of transceivers.

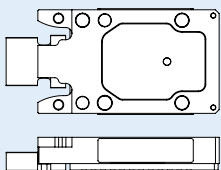
SpaceABLE 28G SL Series features

- Multimode 850 nm laser
- Over 60 m reach on OM3 or OM4 ribbon fiber
- Standard MT parallel fiber connector
- RoHS
- Monitoring: LOS, RSSI, temperature, etc.

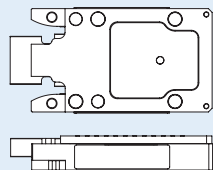
Space qualification tests summary

- **Proton testing:** total non-ionizing dose (TNID)
- **Heavy ion testing:** single event effect & latch-up (SEE and SEL)
- **Gamma Ray using Cobalt-60:** total ionizing dose (TID)
- **Random vibration:** NASA GEVS, GSFC-STD-7000A
- **TVAC:** vacuum < 5E-5 hPa
- **Outgassing:** ECSS-Q-ST-70-02C

Module actual size



SpaceABLE 28G SL
4TRX



SpaceABLE 28G SL
12TX and 12RX

Configurations

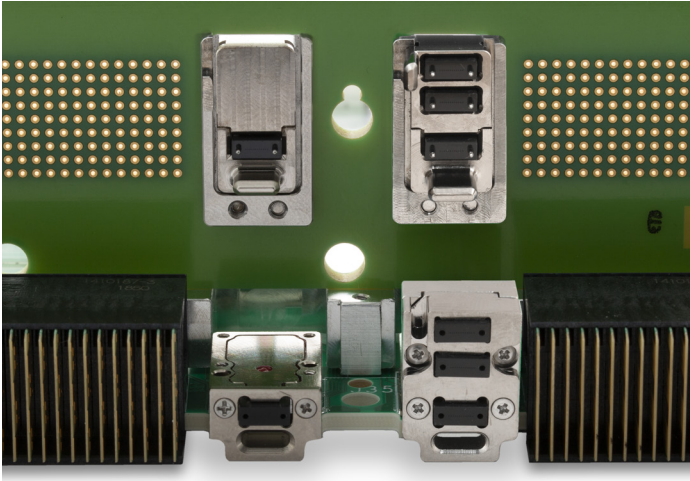
- 4 TRX (100G, full-duplex), in development
- 12 TX or 12 RX (300G, half-duplex), in development

LightCONEX® Optical Backplane

LightCONEX 10G and LightCONEX 28G LC Series



Rugged OpenVPX blind-mate optical backplane connector for defense applications



Key advantages

- Increases volumetric density of 3U and 6U high-speed switch and payload OpenVPX boards by integrating optical transceiver into plug-in connector.
- Intermateability with VITA 66.5-defined backplane connectors enables multiple sources and drives faster design cycles.
- Reduces optical interconnect SWaP with rugged, MIL-STD qualified, edge-mounted, optical interconnects.
- Enables ultra-high port bandwidth density of up to 720 Gbps full-duplex in a half-width slot.
- Simplifies OpenVPX board assembly and rework by eliminating fiber pigtail on edge-mount transceiver.

Applications

- OpenVPX single board computing
- C5ISR embedded systems
- AESA radars
- High-throughput Ethernet switches

The LightCONEX® 10G LC Series and LightCONEX 28G LC Series active blind-mate optical interconnect are revolutionary solutions for OpenVPX systems that include a fixed plug-in module connector and a floating backplane connector that have been developed to be compliant with the VITA 66.5 and aligned to the SOSA® Technical Standard. The low-profile active plug-in module connector is screwed on the board edge through an interposer, simplifying assembly and maintenance.

LightCONEX 10G and LightCONEX 28G LC Series plug-in module connector features

	LightCONEX 10G LC Series	LightCONEX 28G LC Series
Bandwidth	10.3125 Gbps/channel	28 Gbps/channel
Operating temperature	-40 °C to 85 °C	-40 °C to 85 °C
Sensitivity (for BER 10 ⁻¹²)	-12 dBm or -9 dBm	-7.5 dBm
Reach (OM3 fiber)	100 m	70 m
Power consumption	<127 mW/channel	<262 mW/channel

- **Data interface:** CML and LVDS
- **Board mount:** LGA connector
- Equalizer, pre-emphasis, and adjustable output

* Power dissipation values are product-specific—refer the corresponding datasheet for exact values.

Configurations

28 Gbps

- 4 TRX (100G, full-duplex)
- 12TX or 12RX (300G, half-duplex), in development

10.3125 Gbps

- 4 TRX (40G, full-duplex)
- 12TX or 12RX (120G, half-duplex)
- 12TRX (120G, full-duplex)

LightCONEX Styles A, C, and D product line

The *LightCONEX*® optical backplane module connector consists of a connector shell and insert. The shell is designed to provide float for the insert in both the X- and Y-directions to enable alignment of the MT ferrule mating interfaces. The design complies with the ANSI/VITA 66.4 mating requirements with the MT ferrule displacement occurring within the backplane connector.

- Tab guiding feature provides coarse alignment
- Spring-loaded MT ferrule (12-channel or 24-channel)
- Compatible with 12-channel or 24-channel OM3 or OM4 fiber ribbon cable

Optical backplane module connector features

Connector shells

Different backplane connector shells are available to accommodate VITA 67.3 apertures:



Inserts

Backplane module inserts are available in the following configurations:



Optical plug-in module connector features

The *LightCONEX*® plug-in module connector contains the optical transceiver with its MT ferrule, an LGA interposer, and a connector shroud.

- Plug-in module connectors are secured with screws directly to the edge of the host board along with their dedicated LGA interposers.
- 5.6 mm transceiver height
- Up to two additional passive optical ports that are connected with detachable cables to mid-board mounted *LightTABLE* transceivers.



Style A

The *LightCONEX* backplane connector Insert Style A design is intended for active optical applications utilizing the 0.8 in. board pitch. It is designed to fit into the VITA 67.3 Module Type F aperture. The interface is standardized in VITA 66.5.

- 1x MT only.
- Module connector compatible with VITA 66.4 aperture (0.8 in. pitch).

The *LightCONEX* backplane connectors for the VITA 67.3 apertures are available in two versions:

Style C

The *LightCONEX* backplane connector Insert Style C design is intended for active optical applications utilizing the 1 in. board pitch. It is designed to fit into VITA 67.3 Module Types C, D, and E apertures. The interface is standardized in VITA 66.5

- 1x MT only, or hybrid with 1x MT and 5 or 10 nanoRF above

Style D

The *LightCONEX* backplane connector Insert Style D design is intended for active optical applications utilizing the 1 in. board pitch. It is designed to fit into VITA 67.3 Module Types C, D, and E apertures. The interface is standardized in VITA 66.5.

- Up to 3x MT, in which case the lower MT ferrule mates with the plug-in module active MT, while the upper MT ferrules on the plug-in side are cabled to mid-board transceivers.

Optical transceiver with connector shroud

Style A

The *LightCONEX* plug-in module connector Style A is dedicated for the VITA 66.4 aperture and is a unique style with the slot primary alignment feature located above the optical transceiver.

The *LightCONEX* plug-in module connector for the VITA 67.3 apertures are available in two versions. They have connector shrouds for each respective style with the slot primary guiding feature located below the optical transceiver.

Style C

- Style C has one optical transceiver, and, optionally, 10 nanoRFs above

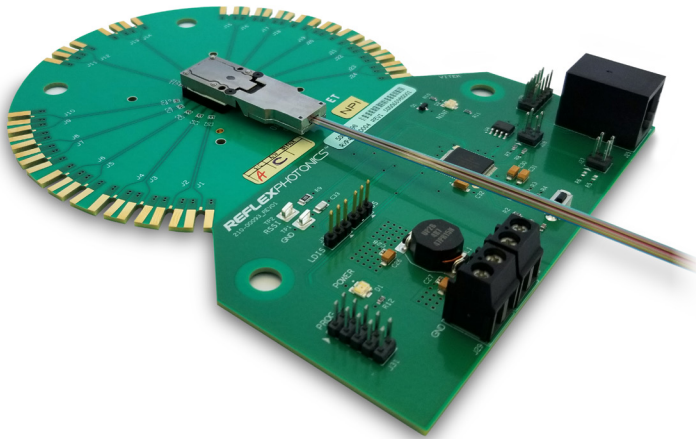
Style D

- Style D has one optical transceiver and two cabled MT.

Evaluation boards

The evaluation boards are the perfect vehicles for testing and evaluating optical modules and OpenVPX optical interconnects.

Mid-board devices evaluation kit



Key advantages

- Designed to operate at up to 10.3125 or 28 Gbps per channel.
- All high-speed signal accessible through SMA
- AC coupled high-speed signals
- Single 3.3 V power supply
- Direct two-wire communication access to the module

Applications

- Optical device evaluation and system-level validation
- Optical eyes performance assessment

Configurations

Mid-board evaluation kits are available for the following modules:

- *Light*ABLE 28G LL Series
- *Light*ABLE 10G LM Series
- *Light*ABLE 10G LL Series
- *Space*ABLE 28G SL Series
- *Space*ABLE 10G SL Series

Product ordering information

LightABLE 10G LM, LightABLE 10G LL, and LightABLE 28G LL

Part Number	Product Description	Channels or Lanes	Bandwidth (Gbps/ch.)	Sensitivity (dBm)	Mounting	RoHS	Operating Temp. (°C)
LMT12P4183310AA	LightABLE 10G LM 12TX transmitter, low-power	12	10.3125	n.a.	Pluggable	RoHS	
LMT12P4183330AA	LightABLE 10G LM 12TX transmitter	12	10.3125	n.a.	Pluggable	RoHS	
LMT12P4184310AA	LightABLE 10G LM 12TX transmitter, low-power	12	10.3125	n.a.	Pluggable	Tin-lead	
LMT12P4184330AA	LightABLE 10G LM 12TX transmitter	12	10.3125	n.a.	Pluggable	Tin-lead	
LMR12P4183301AA	LightABLE 10G LM 12RX receiver	12	10.3125	-9	Pluggable	RoHS	
LMR12P4183303AA	LightABLE 10G LM 12RX receiver	12	10.3125	-12	Pluggable	RoHS	
LMR12P4184301AA	LightABLE 10G LM 12RX receiver	12	10.3125	-9	Pluggable	Tin-lead	
LMR12P4184303AA	LightABLE 10G LM 12RX receiver	12	10.3125	-12	Pluggable	Tin-lead	
LMX04P4183321AA	LightABLE 10G LM 4TRX transmit/receive	4+4	10.3125	-9	Pluggable	RoHS	
LMX04P4183323AA	LightABLE 10G LM 4TRX transmit/receive	4+4	10.3125	-12	Pluggable	RoHS	
LMX04P4184323AA	LightABLE 10G LM 4TRX transmit/receive	4+4	10.3125	-12	Pluggable	Tin-lead	
LLT12P9185330AA	LightABLE 10G LL 12TX transmitter	12	10.3125	n.a.	LGA	n.a.	
LLR12P9185303AA	LightABLE 10G LL 12RX receiver	12	10.3125	-12	LGA	n.a.	
LLR12P9185301AA	LightABLE 10G LL 12RX receiver	12	10.3125	-9	LGA	n.a.	
LLX04P9185323AA	LightABLE 10G LL 4TRX transmit/receive	4+4	10.3125	-12	LGA	n.a.	
LLX04P9185321AA	LightABLE 10G LL 4TRX transmit/receive	4+4	10.3125	-9	LGA	n.a.	
LLX12P4185321AA	LightABLE 10G LL 12TRX transmit/receive	12+12	10.3125	-9	LGA	n.a.	
LLR12P6185301AA	LightABLE 10G LL MPO 12RX receive	12	10.3125	-9	LGA	n.a.	
LLT12P6185330AA	LightABLE 10G LL MPO 12TX transmit	12	10.3125	n.a.	LGA	n.a.	
LLX04P6185321AA	LightABLE 10G LL MPO 4TRX transmit/receive	4+4	10.3125	-9	LGA	n.a.	
LLT12P928534001	LightABLE 28G LL 12TX transmitter	12	28	n.a.	LGA	n.a.	
LLR12P928530502	LightABLE 28G LL 12RX receiver	12	28	-7.5	LGA	n.a.	
LLX04P9285325AA	LightABLE 28G LL 4TRX transmit/receive	4+4	28	-7.5	LGA	n.a.	
LLT12P628534001	LightABLE 28G LL 12TX transmitter, MPO	12	28	n.a.	LGA	n.a.	
LLR12P628530502	LightABLE 28G LL 12RX receiver, MPO	12	28	-7.5	LGA	n.a.	
LLX04P6285325AA	LightABLE 28G LL 4TRX transmit/receive, MPO	4+4	28	-7.5	LGA	n.a.	

SpaceABLE 10G SL and SpaceABLE 28G SL

Part Number	Product Description	Channels or Lanes	Bandwidth (Gbps/ch.)	Sensitivity (dBm)	BER	Mounting	Operating Temp. (°C)
SLT12P918533002	SpaceABLE 10G SL 12TX transmitter	12	10.3125	n.a.	E ⁻¹²	RoHS LGA	-40 to 85
SLR12P918530102	SpaceABLE 10G SL 12RX receiver	12	10.3125	-9	E ⁻¹²	RoHS LGA	
SLX04P918532102	SpaceABLE 10G SL 4TRX transmit/receive	4+4	10.3125	-9	E ⁻¹²	RoHS LGA	
SLX04P528532102	SpaceABLE 28G SL 4TRX transmit/receive	4+4	28	-9	E ⁻⁹	RoHS LGA	
SLT12P928533002	SpaceABLE 28G SL 12TX transmitter	12	28	n.a.	E ⁻⁹	LGA	-10 to 75
SLR12P928530102	SpaceABLE 28G SL 12RX receiver	12	28	-9	E ⁻⁹	LGA	

LightCONEX 10G LC and LightCONEX 28G LC plug-in module connectors

Part Number	Product Description	Channels or Lanes	Bandwidth (Gbps/ch.)	Sensitivity (dBm)	Style	Operating Temp. (°C)
LCX04A4185321AA	LightCONEX 10G 4TRX transmit/receive	4+4	10.3125	-9	A	-40 to 85
LCX04A4185323AA	LightCONEX 10G 4TRX transmit/receive			-12		
LCX04C4185321AA	LightCONEX 10G 4TRX transmit/receive			-9	C	
LCX04C4185323AA	LightCONEX 10G 4TRX transmit/receive			-12		
LCX04D4185321AA	LightCONEX 10G 4TRX transmit/receive			-9	D	
LCX04D4185323AA	LightCONEX 10G 4TRX transmit/receive			-12		
LCX04H018532101	LightCONEX 10G 4TRX transmit/receive			-9	Hybrid C	
LCX04H018532301	LightCONEX 10G 4TRX transmit/receive			-12		
LCT12A418533001	LightCONEX 10G 12TX transmitter	12		n.a.	A	
LCT12C4185330AA	LightCONEX 10G 12TX transmitter			n.a.	C	
LCT12D4185330AA	LightCONEX 10G 12TX transmitter			n.a.	D	
LCR12A418530101	LightCONEX 10G 12RX receiver			-9	A	
LCR12A418530301	LightCONEX 10G 12RX receiver			-12		
LCR12C4185301AA	LightCONEX 10G 12RX receiver			-9	C	
LCR12C4185303AA	LightCONEX 10G 12RX receiver			-12		
LCR12D4185301AA	LightCONEX 10G 12RX receiver			-9	D	
LCR12D4185303AA	LightCONEX 10G 12RX receiver		A			
LCX12A4185321AA	LightCONEX 10G 12TRX transmit/receive	12+12	C			
LCX12C4185321AA	LightCONEX 10G 12TRX transmit/receive		D			
LCX12D4185321AA	LightCONEX 10G 12TRX transmit/receive					
LCX04C4285325AA	LightCONEX 28G 4TRX transmit/receive	4+4	28	-7.5	C	
LCX04D4285325AA	LightCONEX 28G 4TRX transmit/receive				D	
LCX04H028532502	LightCONEX 28G 4TRX transmit/receive				Hybrid C	
LCT12C428534001	LightCONEX 28G 12TX transmitter	12			C	
LCR12C428530502	LightCONEX 28G 12RX receiver				D	
LCT12D428534001	LightCONEX 28G 12TX transmitter					
LCR12D428530502	LightCONEX 28G 12RX receiver					

LightCONEX backplane connectors

Part Number	Product Description	VITA Aperture compatibility			
		66.4	67.3D	67.3C	67.3E
Backplane inserts (order cables as needed)					
415-00025	VITA 66.5 Style A backplane insert	✓			
415-00032	VITA 66.5 Style C backplane insert		✓	✓	✓
415-00051	VITA 66.5 Style D backplane insert		✓	✓	✓
Backplane connector shells					
450-00066	Backplane shell, V66.5 Module C			✓	
450-00065	Backplane shell, V66.5 Module D		✓		
450-00104	Backplane shell, V66.5 Module E				✓
450-00067	Backplane shell, V66.5 Module E				✓
450-00070	Backplane shell, V66.5 Module F	✓			

Accessories for LightCONEX plug-in module connectors

Part Number	Description
415-00005	Interposer kit for LC Style A (4TRX, 12TX, and 12RX), includes: 1x 700-00018 interposer + 4x screws
415-00018	Interposer kit for LC Styles C and D (4TRX, 12TX, and 12RX), includes: 1x 700-00117 interposer + 4x screws
415-00019	Interposer kit for LC Styles A, C, and D (12RX), includes: 1x 700-00019 interposer + 4x screws
415-00041	Interposer kit for LC28 Styles C and D (4TRX, 12TX, and 12RX), includes: 700-00115 interposer, 4x screws

Disclaimer

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