



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



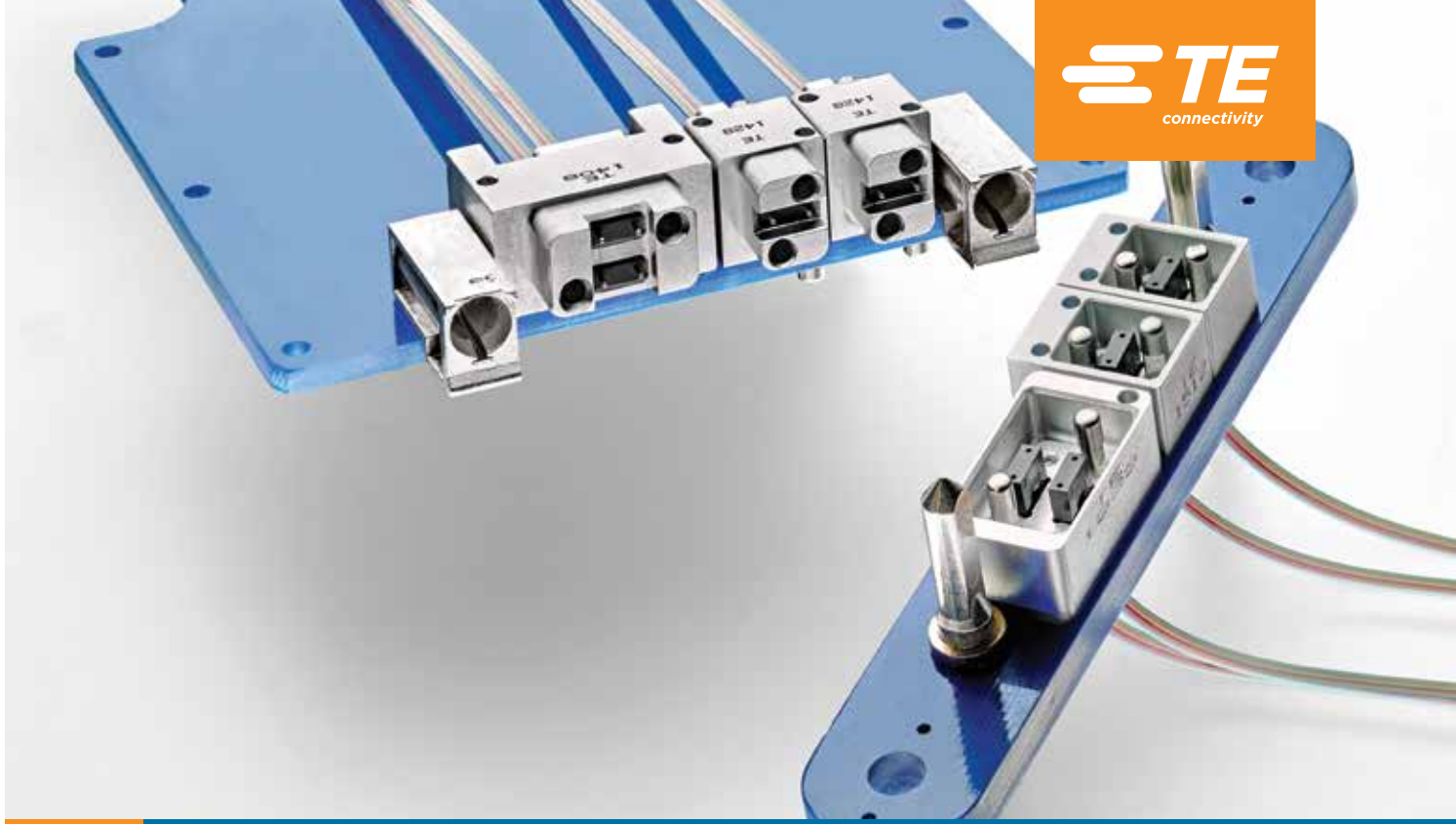
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RUGGEDIZED OPTICAL BACKPLANE INTERCONNECTS

FOR VITA 66.1 AND 66.4

High-Density Optical Modules for Demanding
Embedded Computing Application

RUGGEDIZED OPTICAL BACKPLANE INTERCONNECTS

Support VITA 66.1 and 66.4 Standards



RUGGED RELIABILITY

- Meets VITA 66.1 and 66.4 standards
- Common protective cover is made of anti-static material
- Receptacle (backplane) connector includes two robust guide pins for blind mating
- Connector mounting screws contain pre-applied Nylok patch to help withstand vibration

VERSATILE

- Full-size VITA 66.1 or half-size VITA 66.4 modules
- Plug (daughtercard) connector housing contains a slot feature to facilitate cleaning the MT interfaces
- Locating post features helps ensure proper position on the backplane and daughtercard

HIGH PERFORMANCE

- Connectors designed to maximize optical performance, accommodating up to two MT ferrules
- Receptacle connector insert floats relative to the shell, providing ± 0.25 mm planar floating alignment capability

APPLICATIONS

- Embedded Computing
- Avionics and Vetrionics
- Secure Communications
- Processing
- Radar
- Imaging and Targeting

TE Connectivity's (TE) Ruggedized Optical Backplane interconnect system provides a high-density, blind-mate optical interconnect in a backplane/daughtercard configuration. The fiber optic ribbon cable interconnect feeds through the backplane to removable system modules using MT ferrules.

The optical module are available in two sizes:

- **VITA 66.1 modules are full width and accommodate two MT ferrules.**
- **VITA 66.4 modules are half width and hold a single MT ferrule. Two modules can be fit into the same space as a VITA 66.1 modules.**

Designed for rugged embedded computing applications, the optical modules are compatible with VPX and other high-performance standards.

MECHANICAL/ENVIRONMENTAL

- **Mating Force (per 12-fiber MT ferrule):**
Min: 7.8 N (1.75 lb)
Max: 11.8 N (2.65 lb)
- **Durability:** 100 cycles, tested per EIA-455-21
- **Shock:** 50 g, sawtooth, 11 ms pulse duration, tested per TIA/EIA-455-14, condition E
- **Random Vibration:** 11.95 g_{rms} , 50 to 2000 Hz, 2 hr per plane.
Tested per TIA/EIA-455-11, test condition V1-D
- **Storage Temperature:** -55°C to +85°C
- **Operating Temperature:** -20°C to +85°C
- **Thermal Aging:** 168 hrs at +85°C
- **Humidity, Steady-State:** 95% RH at 60°C
- **Temperature Cycling:** 21 cycles between -20°C and +85°C

MATERIALS

- **Connector Shell and Housing:** Aluminum alloy 6061, clear-chromate conversion-coated (RoHS compliant)
- **Alignment Posts and Screws:** Stainless steel, 300 series, passivated (RoHS-compliant)

STANDARDS AND SPECIFICATIONS

- **TE Application Specification:**
VITA 66.1: 114-32050
VITA 66.4: 114-32144
- **TE Product Specification:**
VITA 66.1: 108-2467
VITA 66.4: 108-2467-1
- **TE Qualification Test Report:**
VITA 66.1: 501-134012
VITA 66.4: 501-134012-1

TE Components . . . TE Technology . . . TE Know-how . . .

AMP | Agastat | CII | Hartman | Kilovac | Microdot | Nanonics | Polamco | Raychem | Rochester | DEUTSCH
SEACON Phoenix | L.L. Rowe | Phoenix Optix | AFP | SEACON

Get your product to market faster with a smarter, better solution.

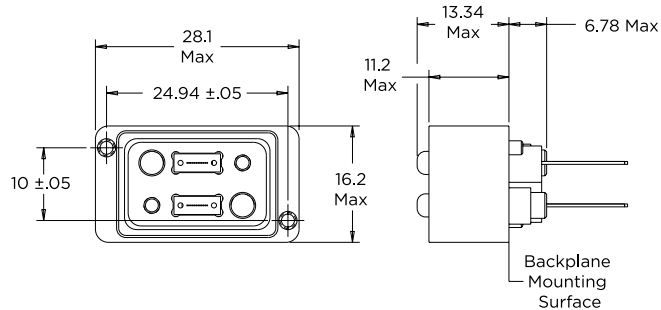
Part Numbering and Dimensions

Interface	Part No.	
	Backplane	Daughtercard
VITA 66.1	2000973-1	2000974-1
VITA 66.4	2226880-1	2226881-1
MT Ferrule Kit (12 Fiber, Multimode)	2102866-1	2102866-2

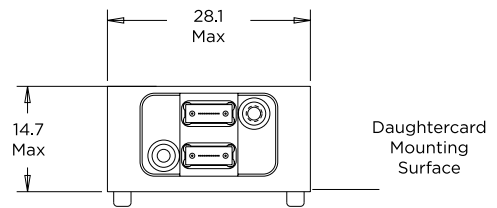
VITA 66.1

(Shown Assembled with Reference MT Cable Assemblies Installed)

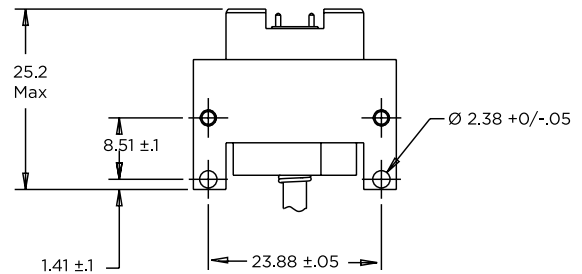
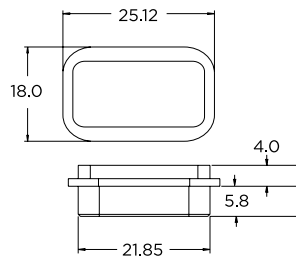
Backplane Module Part No. 2000973-1



Daughtercard Module Part No. 2000974-1



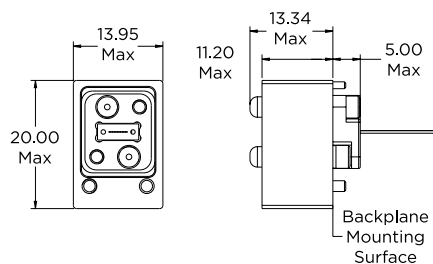
Protective Cover Part No. 2102321-1



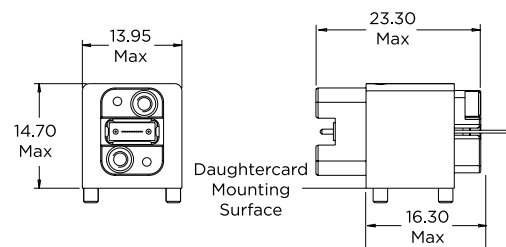
VITA 66.4

(Shown Assembled with Reference MT Cable Assemblies Installed)

Backplane Module Part No. 2226880-1



Daughtercard Module Part No. 2226881-1



LET'S CONNECT

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Consult TE for the latest dimensions and design specifications.

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