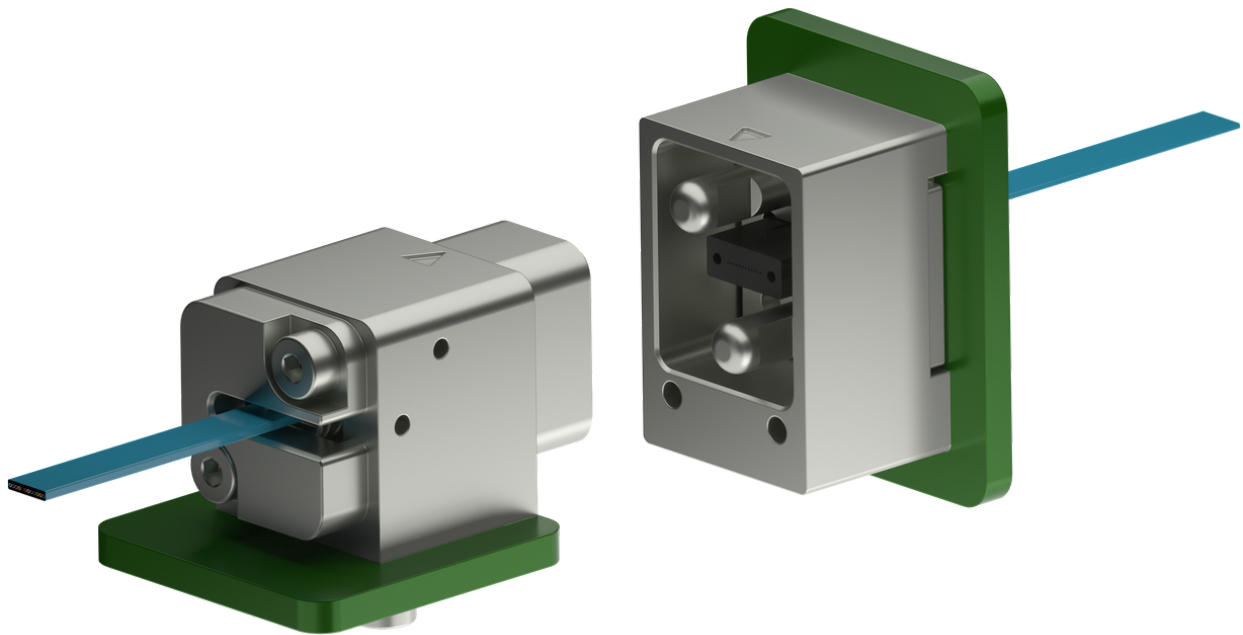


VITA 66

Self-Declaration of conformity

Optical backplane floating connection



VITA 66 connectors are tested according to VITA 47 protocols.



VITA 66

Optical backplane floating connection for VPX architectures.

VITA 66 connectors are tested according to VITA 47 protocols

Manufacturer :

NICOMATIC SA
173, rue des fougères-zone industrielle les Bracots
74890 BON-EN-CHABLAIS – France
Tel. +33 (0)4 50 36 13 85
Fax. +33 (0)4 50 36 11 33
Website : www.nicomatic.fr
Email : nicomatic@nicomatic.fr

We hereby declare that the following products :

VITA66 Connector Series

Have been tested in accordance with the applicable items of the VITA 47 standard, as detailed in the Auto Declaration Annex.

The products comply with the required performance levels, provided that they :

- are tested in accordance with VITA 47 protocols
- are used as intended and conform to the manufacturer's specifications
- are installed in accordance with the relevant standards

Please refer to the attached annex for the full list of qualification tests under the VITA standard, including report numbers, test titles, and corresponding results.

Place and date of issue :

Bons-en-Chablais, September 05th, 2025

Prepared by :

Geoffroy MACHUT
Laboratory

Approved by :

Pauline BURGNIARD
VITA66 Project Manager

Signature and stamp of the company :



A handwritten signature in black ink, appearing to be 'GM', written over a horizontal line.

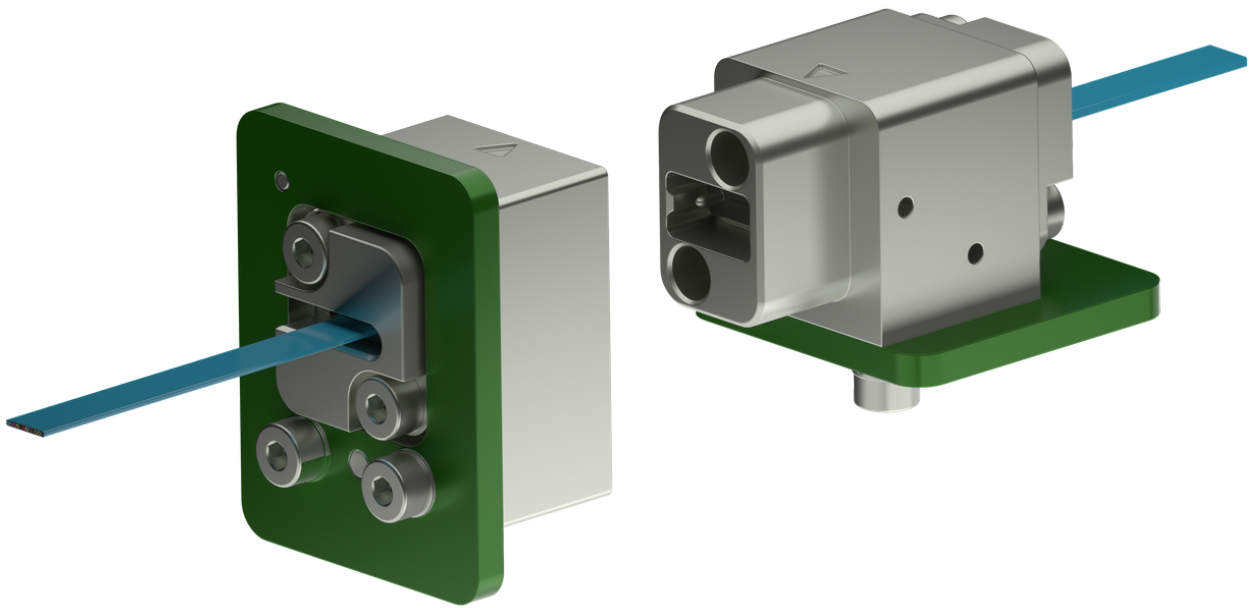
A handwritten signature in black ink, appearing to be 'PB', written over a horizontal line.

VITA 66

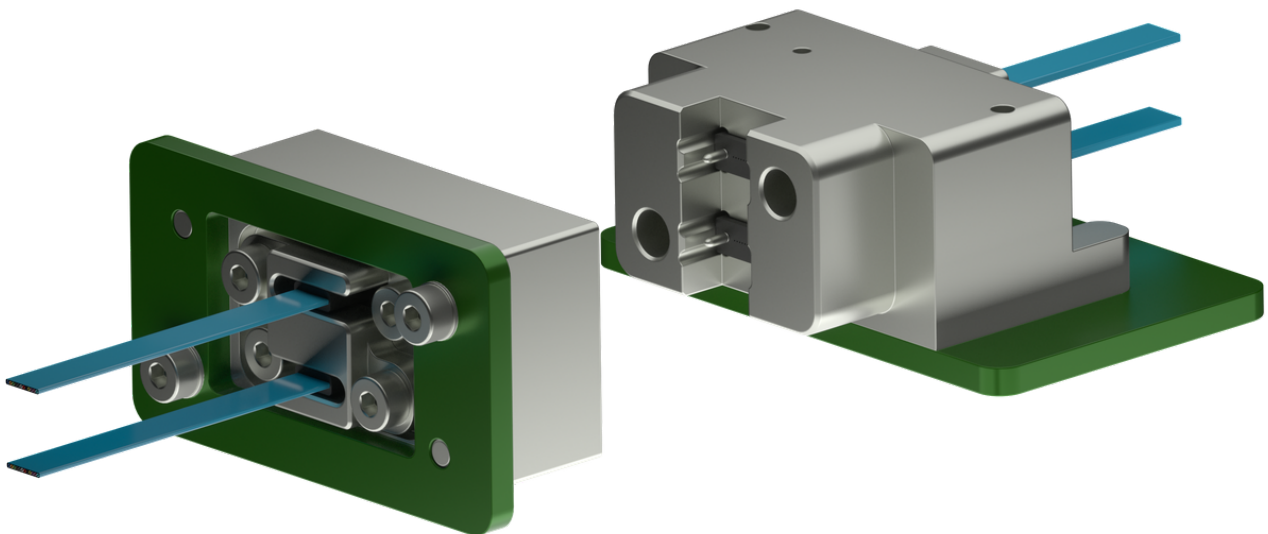
Optical backplane floating connection for VPX architectures.

1. VITA connectors qualified :

VITA 66.1 module (V66-1M-MT2-A) + backplane (V66-1B-MT2-A)



VITA 66.4 module (V66-4M-MT1-A) + backplane (V66-4B-MT1-A)



VITA 66

Optical backplane floating connection for VPX architectures.

2. Qualification test results

ENVIRONMENTAL PERFORMANCE

Characteristics	Test	Procedure	Result
Humidity	25°C - 65°C / 89% - 94% humidity / 10 days	EIA-364-31E & MIL-DTL-83513G	PASS
Temperature cycling	+ 55°C / +105°C - 500 cycles	EIA-364-32G & VITA 47	PASS
Non-operating temperature	+ 55°C / +105°C - 168h	VITA 47	PASS
Salt spray	48h	EN 2591-408-1998 & VITA 47	PASS
Fungus resistance (moisture)	No fungal growth	MIL-STD-810H, method 508.8	PASS
Sand and dust	Temperature: 30°C - 65°C Velocity: 3 m/s - 10 m/s Dust concentration: 3 g/m ³ - 9 g/m ³	EN 2591-308-1998 & EN 4165-001-2016	PASS
Fluid immersion	Mineral hydraulic fluid: Hydraunycoil FH515 Cleaning product: Bioclean 360SC Cleaning product: Propanol 25% - white spirit 75% De-icing fluid: Kilfrost DF plus type 1 Cooling Fluid: ISO 1817 liquid 103	MIL-DTL-83513H-A2 & EN 2591-315	PASS

MECHANICAL PERFORMANCE

Characteristics	Requirement	Procedure	Result
Vibration	Class V3	VITA 47	PASS
Mechanical endurance	500 cycles	EN 2591-406-1998 & EN 4165-001-2016	PASS
Shock	40g	MIL-STD-810G, method 516, procedure I	PASS

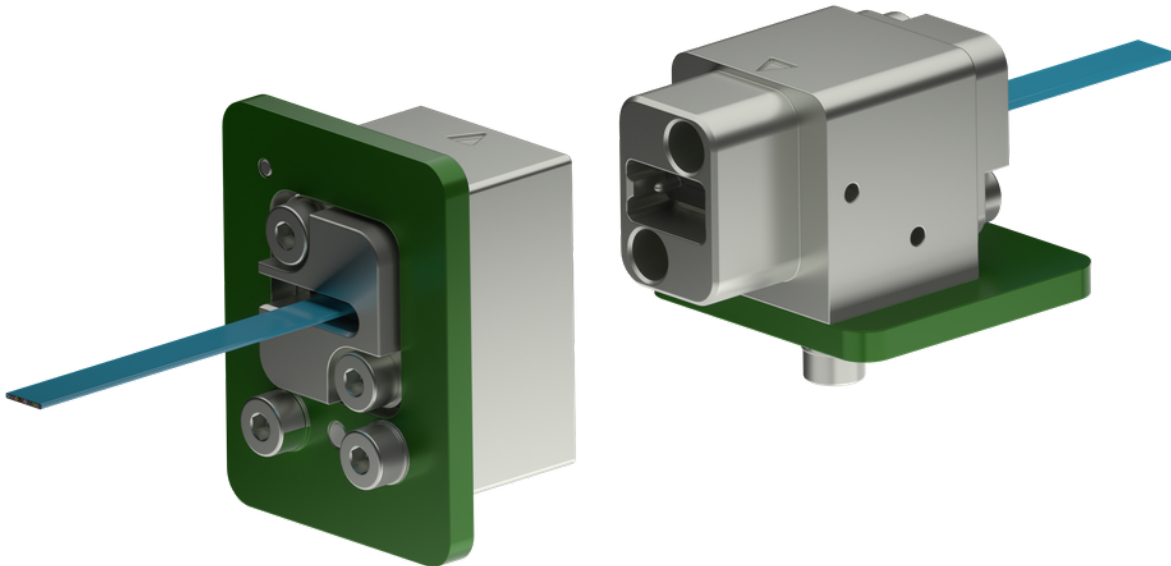
Validation Criteria

- Before testing: **IL < 0.5 dB** (typically 0.3 dB).
- Acceptance criterion: **IL < 1 dB** after testing.
- Vibration and shock testing: BER measured using a PRBS-31 protocol at 12.5 Gbps.



VITA 66

Optical backplane floating connection for VPX architectures.



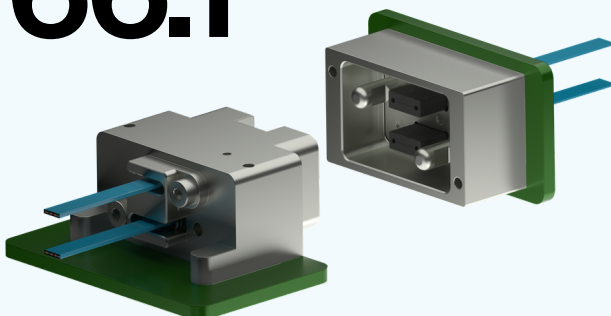
Module connector

- Mounted on the plug-in cards racked in a VPX chassis
- Allows a precise ferrule alignment before connection

Backplane connector

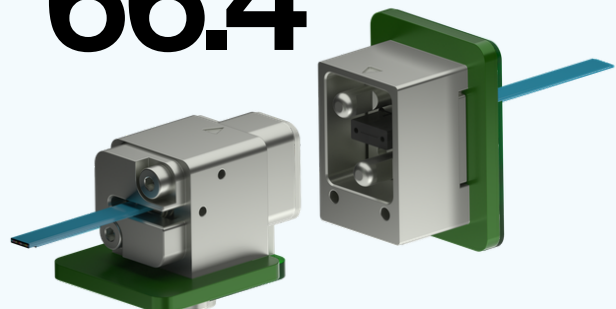
- Mounted on the backplane board
- Floating connector to compensate for system backlash (0.5mm floating)

VITA 66.1



Connector with **2 MT** ferrules

VITA 66.4



Connector with **1 MT** ferrule

