

**Product Overview**

The VCL-2725 is an industrial multirate media converter that is housed in a rugged aluminum chassis which is designed to convert 10/100/1000Base-T (Electrical Ethernet) signal into 100Base-FX or 1000Base-X (Optical Ethernet - Multirate) signal. And vice-versa. It may be used to convert/extend 10/100/1000Base-T Electrical Ethernet signal to 100Base-FX or 1000Base-X (Optical Ethernet) transparently with no performance degradation. The VCL-2725 industrial media converter is an ideal solution to connect networks on different floors, separate buildings and to extend distances between servers, workgroups or locations. Optical loss budget options are from 12dB to up to 38dB (i.e. equivalent to 2 KM (1.24 Miles) to up to approximately 80 KM (50 Miles) (with nominal cable attenuation and splicing losses) in an Ethernet network.



**Front View**

**Features**

- Industrial Grade, Aluminum Chassis, DIN Rail mountable
- 1x Copper Port for 10/100/1000Base-T and
- 1x Optical (SFP) Port (100Base-FX/1000Base-FX)
- User configurable multirate 100Base-FX or 1000Base-FX
- Optical Mode through DIP switch settings. No SFP change required with Valiant’s multirate SFP.

**Technical Specifications**

**Electrical Ethernet:**

- 1x 10/100BaseT; or 1x 100/1000BaseT
- 10/100/1000M auto negotiation / MDI (Auto-sensing)
- Compliant with IEEE 802.3, IEEE 802.3/u Specifications.
- Full-Half Duplex, RJ45 Electrical Connector

**Optical Ethernet (Multirate)**

- 1x 100Base-FX; or 1x 1000Base-FX Multi-rate
- Compliant with 100Base-FX/1000Base-FX Standards
- User selectable between 100Base-FX (Fast Ethernet) and 1000Base-FX (Gigabit Ethernet) modes
- Suitable for Single mode / Multi-mode fiber
- LED status for activity, link and power.

**Physical Dimension**

- DIN Rail
- W x H x D: 42mm x 168mm x 84mm
- Weight: 350 g.

**Power Supply**

Power Input	12V DC ~ 60V DC
Power Supply Options	AC 110~240V, 50/60Hz; DC 120~220V (external adapter)
Power Consumption	5W

**Environment:**

Operating temperature	-20C to +60C
Storage temperature	-40C to +85C
Humidity	10% to 95% R.H., Non-condensing

**EMI, EMC, Surge Withstand and other Compliances:**

EN 50081-2	EN 50082-2	IEC 60068-2-29
IEC 61000-4-6 (Conducted Immunity)	IEC 60068-2-6	IEC 60068-2-2
IEC 60068-2-78	IEC 60068-2-1	IEC 60068-2-14
CISPR 32 / EN55032 Class A (Conducted Emission and Radiated Emission)		
IS9000 (Part II Sec. 1-4, Part III Sec. 1-5, Part IV, Part 14 Sec. 1-3)		
IEC 60870-2-1	IEC 61000-4-5	IEC 61000-4-2
IEC 61000-4-3 (Radiated Immunity)	IEC 61000-4-8	IEC 61000-4-4
	IEC 61000-4-11	



**Back View**

**Electromagnetic Standards Compliance:**

- EN 50081-2
- EN 50082-2
- IEC 61000-6-2 (Immunity)
- IEC 61000-6-4 (Emission)
- Complies to IEEE and IEC standards.

**CE Compliance:**

- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility 2014/30/EU.

**Other Regulatory Compliances:**

- CE
- RoHS
- Complies with FCC Part 68 and EMC FCC Part 15.

## Ordering Information

## Core Unit:

Model No.	Description
VCL-2725-DIN-DC012060	VCL-2725, Multirate Optical / Electrical Industrial Media Converter DIN Rail Mounting Version Supports: <ul style="list-style-type: none"> <li>– 1 x 10/100/1000Base-T, Electrical Interface [RJ45 (F)]</li> <li>– 1 x 100Base-FX / 1000Base-FX Optical Interface (SFP based) (Without SFP - <b>SFP to be ordered separately</b>)</li> <li>– 1 x 12~60V DC Power Supply Input</li> <li>– Mounting Hardware, Documentation, User Manual</li> </ul>

## 100Base-FX SFP Options (Maximum 1 SFP per Unit):

Model No.	Description
VCL-EMOD 0262	SFP Transceiver, Duplex LC, 100Mbps, 850nm, 2Km, MM (Multi-Mode)
VCL-EMOD 0193	SFP Transceiver, Duplex LC, 100Mbps, 1310nm, 15Km, SM (Single-Mode)
VCL-EMOD 0194	SFP Transceiver, Duplex LC, 100Mbps, 1310nm, 40Km, SM (Single-Mode)
VCL-EMOD 0217	SFP Transceiver, Duplex LC, 100Mbps, 1550nm, 80Km, SM (Single-Mode)

## 1000Base-X SFP Options (Maximum 1 SFP per Unit):

Model No.	Description
VCL-EMOD 0206	1.25Gbps SFP Transceiver
VCL-EMOD 0482	1.25Gbps SFP Transceiver Duplex LC, 1310nm, 20Km, SM (Single-Mode)
VCL-EMOD 0255	1.25Gbps SFP Transceiver Duplex LC, 1310nm, 40Km, SM (Single-Mode)
VCL-EMOD 0256	1.25Gbps SFP Transceiver Duplex LC, 1550nm, 80Km, SM (Single-Mode)

## Additional Power Supply Options (External Adaptor):

Model No.	Description
VCL-EMOD 0444-AC220	External Power Supply - DIN Rail Mount Power Supply (External) AC to DC Converter, DRL30-24-1, DIN Rail Mount: <ul style="list-style-type: none"> <li>– Input: 1 x AC Input [90~240V AC, 50-60Hz]</li> <li>– Output: 1 x DC Output [24VDC~1.25A, up to 30W]</li> </ul>
VCL-EMOD 0444-DC220	External Power Supply - DIN Rail Mount Power Supply (External) DC to DC Converter, DRL30-24-1, DIN Rail Mount: <ul style="list-style-type: none"> <li>– Input: 1 x DC Input [110~250V DC]</li> <li>– Output: 1 x DC Output [24VDC~1.25A, up to 30W]</li> </ul>

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Technical specifications are subject to changes without notice.

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