Introduction:
The VCL-2707, IEEE C37.94 to T1 Converter is a ruggedized and robust, sub-station-hardened protocol converter that converts IEEE C37.94 Interface to a T1 Interface, and vice-versa. The VCL-2707 is designed for use in point-to-point applications.

The VCL-2707 meets and complies with the IEC-61850-3, EMI, EMC, Surge and Temperature specifications making it suitable for sub-station installations to provide uninterrupted service even in the most demanding and harsh environments.

Features:
- VCL C37.94 to T1 Converter is a cost-effective solution to transport protection relay devices or any industrial application devices reliably over an existing T1 / SONET communications network.

Connectors:
- Power: Terminal Block, 2-Pin Supply Connector
- IEEE C37.94 Interface: ST Connector
- T1 Interface: RJ45 (Female) Connector.

Power Supply:
- Power Supply Options (Internal) 24VDC, 48VDC
- Power Supply Options (External Adapters) 110VDC and 220VDC

Application Diagram:

C37.94 Interface Specifications:
- Number of interfaces per card: 1 Tx, 1 Rx
- Standard: IEEE C37.94
- Optical: 820nm / 850nm Multi-Mode
- Optical connector: ST
- Optical Transmitter: LED

T1 Interface Specifications:
- Interfaces: 1 x T1 Interface (1.544 Mbit/s)
- Frame structure: As per ITU G.704
- Code: B8ZS
- Framing: ESF
- Nominal Impedance: 100 Ohms balanced

Compliance/ Regulatory:
- RoHS
- CE Marking
- Complies to applicable IEEE and IEC standards
- Complies with FCC Part 68 and EMC FCC Part 15 and CISPR 22 Class A
- Operation ETS 300 019 Class 3.2
- Transportation ETS 300 019 Class 2.3

Mechanical Specifications:
- Chassis: DIN Rail Mounting.
- Weight: 1.5 KG