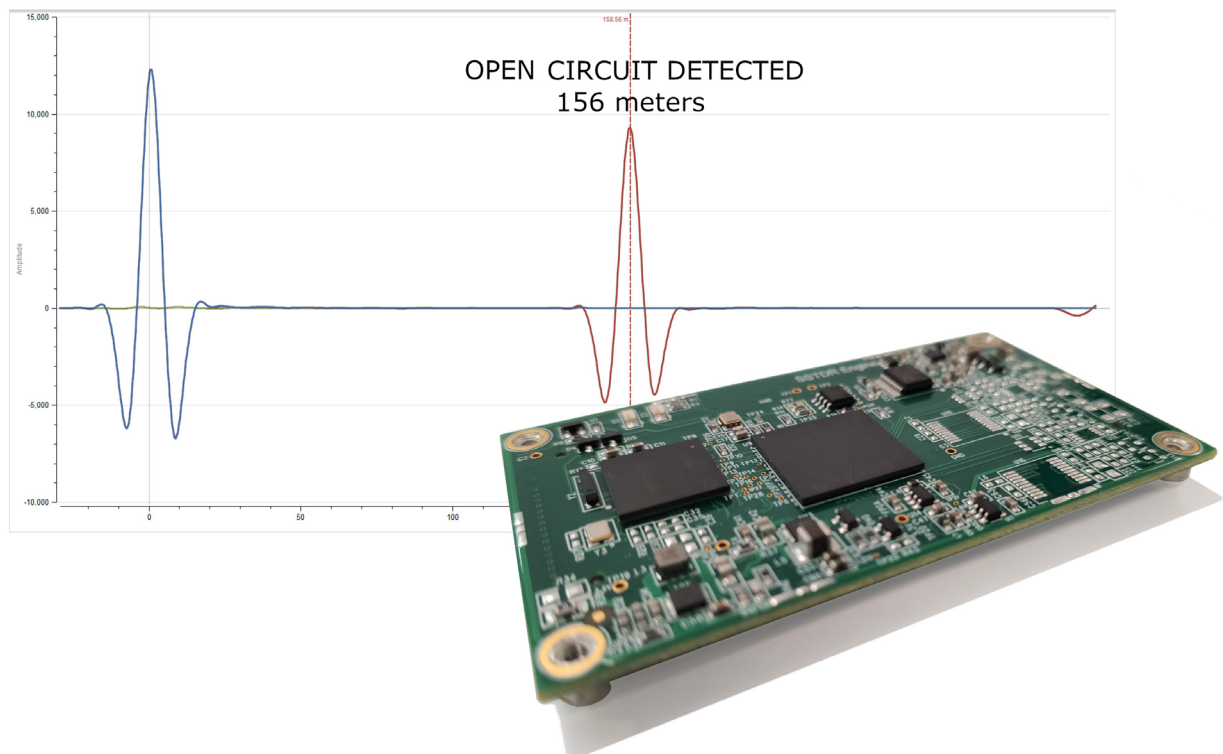


**AWARD WINNING
PRODUCTS AND SERVICES
TAKING OUT COST AND
INCREASING OPERATING
EFFICIENCY**

INTRODUCING SSTDR S100 LIVE DETECTION AND LOCATION OF FAULTS IN ELECTRICAL CABLES AND WIRES



SSTDR S100

THE SSTDR S100 IS A FULLY ENGINEERED, READY TO INTEGRATE, BOARD-LEVEL FAULT DETECTION ENGINE.

The fully engineered, credit card-sized board and corresponding chipset enables engineers, OEMs, end-equipment manufacturers, as well as system operators to quickly develop and integrate the ability to monitor live cables, wires and electrical systems for the detection and location of critical open and short circuits, arc faults, and hard to see intermittent events. Importantly, it can operate on live systems. The S100 also allows system operators to collect valuable baseline data that can be used to help predict and prevent outages.

Applications

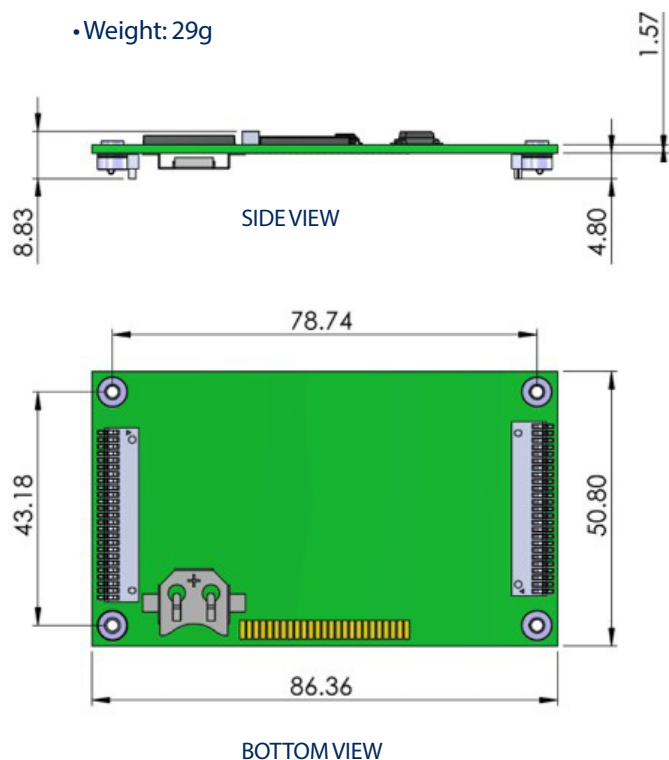
- General industry applicability in utilities, aerospace, rail systems, PV array, telecoms, industrial and power systems
- Live cable monitoring
- Live cable power theft/damage detection
- Cable harness testing

Key Features

- Continuous monitoring of live electrical systems
- Detects short circuits, open circuits, circuit impedance changes
- Detects intermittent and persistent faults
- Distance to fault accuracy up to 98%
- Covers wide range of cable lengths, from cms to kms
- Multiple SSTDR S100 modules can be used on the same conductors without interference
- Small, credit-card sized form factor
- Fully engineered, ready to integrate board-level fault detection engine

Mechanical

- Dimensions: 86.36mm x 50.8mm
- Weight: 29g



Note: Dimensions in mm

Mounting

Mounting: 4 Screws - 4-40 thread x 1/4"

SSTDR S100

SSTDR S100 PRODUCT SPECIFICATION

Measurements

- Single channel
- Maximum Output Voltage: 3.3V
- Default Output Voltage: 1.27V
- Output Voltage Resolution: 33mV
- Test Frequencies: 93.75kHz to 24MHz
- Distance Range (cable dependent):
 - Electrical cable: 0 to 5km
 - Data cable: 0 to 1km
 - Coaxial cable: 0 to 1km
 - Shield power distribution cable: 0 to 6km
- Unit types: metres or feet
- Test modes:
 - **Static:** single measurement using all frequencies
 - **Sweep:** continuous monitoring using 4 pre-programmed frequencies
 - **Dynamic:** continuous monitoring using a single frequency
- Results can include; fault notification, fault type, fault distance, fault duration, waveforms

Communications Interface

- Serial Interface UART
- Reset

Support Board Requirements

- S100 module requires support board
- Front-end coupling determines maximum operating voltage

Operating Characteristics

- Input voltage: 2.7 to 12Vdc
- Typical Power Consumption: 1.2W

Environmental

Operating / Storing Temperature: -40 °C to + 85 °C

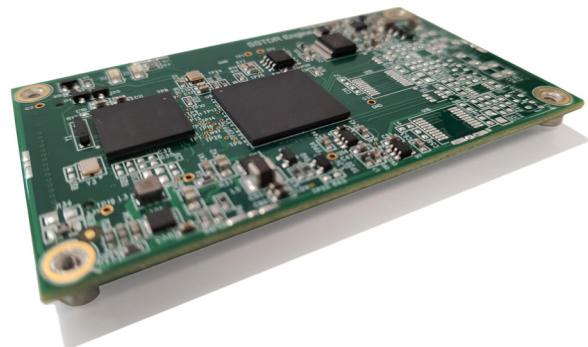
Standard / Compliance

- CAT III 600V
- RoHS compliant



Order Code

VA-229154 SSTDR S100 Module



Other Products

VA-227852/EVAL SSTDR S100, RS485, 750V, DIN*



Image is for illustrative purposes only.

* Supplied for engineering development and evaluation only.

SSTDR S100

www.viperinnovations.com

Please contact Viper Innovations for further information on SSTDR S100.

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