

VT/CT Interface Board for Intel SMART GRID IoT Platform

910-0017 Rev.2.00

Overview

Sampled values in IEC 61850 are normally derived from secondary voltage (VT) and current transformer (CT) circuits in a substation.

The Intel **SMART GRID IoT Platform** provides high precision analogue inputs catering for a maximum peak-to-peak voltage of 1.25 Vac.

AC measurements in a substation are typically 110 Vac for voltage measurements and 5 Amp ac for current measurement provided by secondary VT and CTs.

The SystemCORP VT/CT Interface Board provides isolated and safe VT and CT interface channels for the SMART GRID IoT Platform allowing a direct connection of the development platform to secondary VT and CT circuits in a substation or any protection relay testing equipment simulating VT and CT circuits.

If required each channel can be individually calibrated over a range of 40% using multi-turn trim potentiometers.

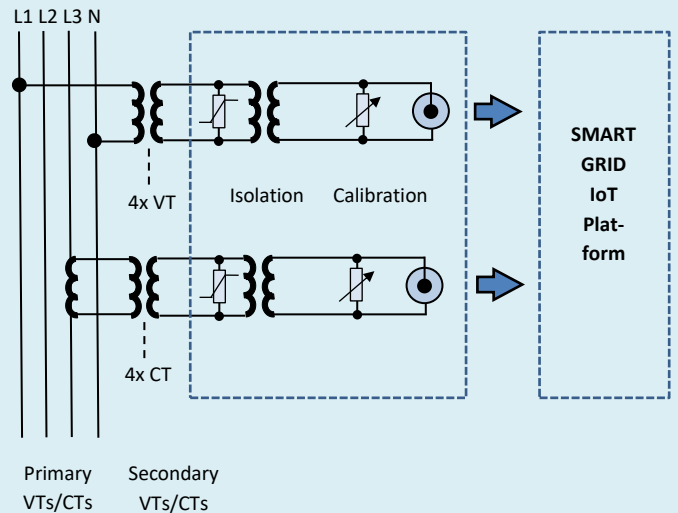


Key Features

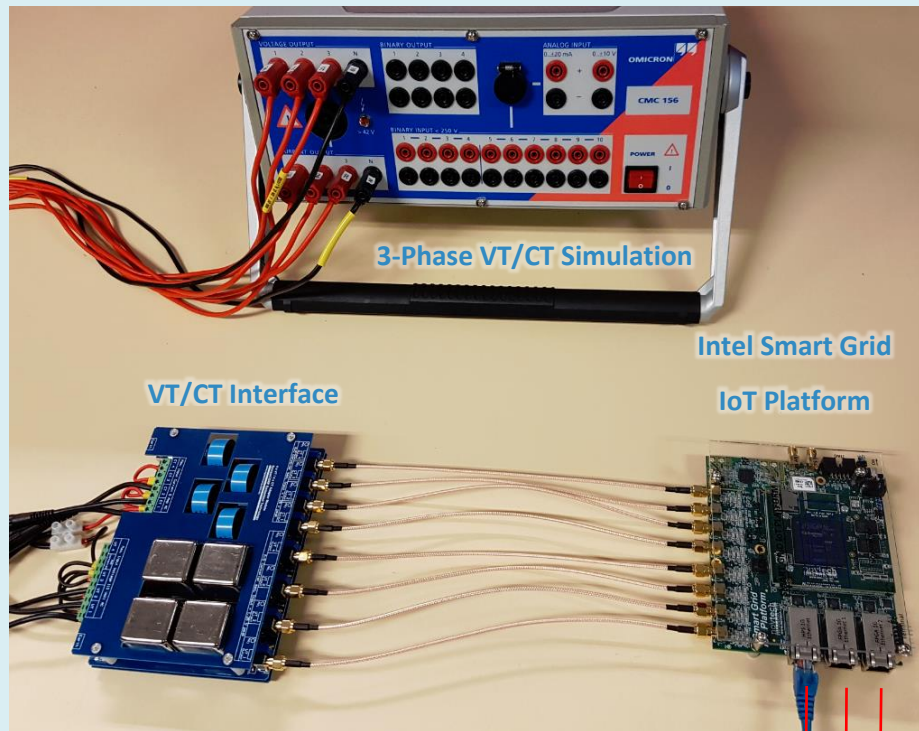
- ✓ 4 x isolated AC Voltage Input Channels 110 Vac / 1.25 Vac
- ✓ 4 x isolated AC Current Input Channels 5 Amp ac / 1.25Vac (1 Amp CT interface on request)
- ✓ VT/CT input channels surge protection according to IEC 61850-3
- ✓ VT/CT Accuracy Class 1 (1%)
- ✓ Individual hardware calibration option for each VT and CT channel
- ✓ Touch proofed design of VT and CT inputs
- ✓ Standard SMA Type Connectivity to SMART GRID IoT Platform

Application

Interface the Intel SMART GRID IoT Platform to primary VT/CT circuit in a substation or to any protection relay test system.



Typical System Setup



SystemCORP
Embedded
Technology

IEC 61850 Server MMS GOOSE
IEC 61850 Client MMS GOOSE
IEC 61850-9-2 Sampled Value
Publisher

Caution: The module is not calibrated – for indication only!

Online Help and Links

<http://www.systemcorp.com.au/products/tools/icd-designer/>

Supporting Tools

SystemCORP Energy provides the **ICD Designer** tool for IEC 61850 client and server configuration.

Contact

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