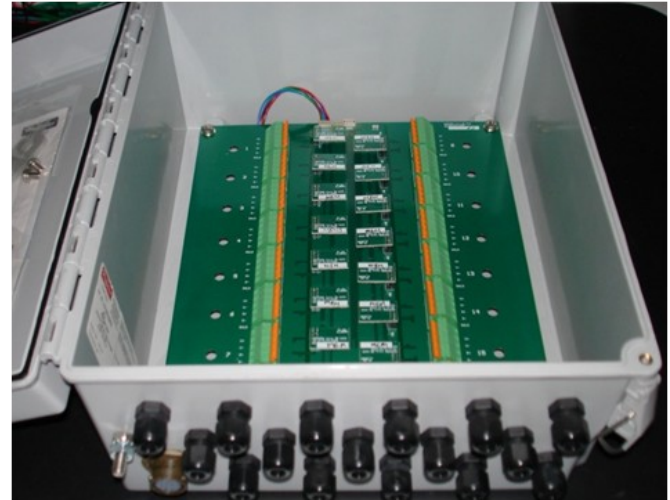


The i3100 device interfaces connect sensors and supported devices to the iSite™ i3000 controller. Each interface consists of a WIN-BOND W77LE58 CPU programmed to exchange information between the controller and the supported device. Supported devices include bit analog to digital converters, frequency readers for vibrating wire sensors, strain gage bridges, seismographs, automated total stations and Leica GPS systems.



Power Supply

- ▶ External: vdc via Serial Interface Bus

Power Consumption

- ▶ Average current in continuous operations: 30 ma
- ▶ Average current in sleep mode: 10 ma

Operating Environment

- ▶ Temperature: -25° to +80°C
- ▶ NEMA 4 moisture resistant enclosures

Peripheral Interfaces

- ▶ Serial Interface Buses via MIL-C-26482 12-10 S circular bayonet lock connectors

- SG350 strain gage 350 ohm
- VBWIR vibrating wire
- CC lightning protection
- NO no lightning protection
- LP with three stage lightning protection
- DD enclosure
- 01 metal with external bayonet connectors
- 02 ABS plastic with external bayonet connectors
- 03 metal with external Hyroshie connectors
- 04 plastic with external Hyroshie connectors
- 05 metal with internal push pin connectors and moisture resistant cable glands
- 06 plastic with internal push pin connectors and moisture resistant cable glands

Device Interfaces

- i3110 device interface to InstanTel Blastmate III seismograph
- i3120 device interface to Syscom MR2002-CE seismograph
- i3130 device interface to Leica 1201 automated total station
- i3140 device interface to Leica GPS.

Example part numbers

To interface 8 channels of vibrating wire sensors without lightning protection using plastic case and internal push pin connectors use i3100-VBWIR-08-NO-06.

To interface 16 – 120 ohm strain gages with full bridge completion circuit and lightning protection in plastic case with external bayonet connectors, use i3100-SG120-16-LP-02.

Standard Packages

i3000-AA-BB-CC-DD

Sensor Interfaces

AA number of sensors

- 02 two channels
- 04 four channels
- 08 eight channels
- 16 sixteen channels

BB sensor type

- ANUNI analog unipolar
- ANBIP analog bipolar
- CUSTM customized
- DIGITL digital I/O
- SG120 strain gage 120 ohm
- SG240 strain gage 240 ohm