



Granite 9

Measurement and Control Data-Acquisition System



Meeting Your Top Testing Priorities

Flexible for use in the lab and out in the field

Overview

The Granite™9 and Granite™10 are the most computationally powerful data-acquisition devices from Campbell Scientific. As an all-digital measurement and control DAQ, the Granite 9 is

designed as the core of the data-acquisition network, integrating with all GRANITE measurement modules, including the Volt 108, Volt 116, Temp 120, VWire 305, and CH400.

Benefits and Features

- › Traditional network connections via Ethernet port
- › EPI port switch for high-speed connection to all GRANITE™ measurement modules
- › Onboard storage of streaming data with 2 GB of DDR3 SDRAM and a 64 GB solid-state hard drive (SSD)
- › Built-in GPS for network synchronization

Detailed Description

The Granite 9 enables you to perform the following:

- › Standard measurement functions
- › Advanced math and processing functions
- › Control functions

A complete GRANITE system installation may include the following components:

- › Granite Chassis
- › Granite 9
- › CH400
- › Power source (mains or solar)
- › Software

Specifications

-NOTE-

Additional specifications are listed in the [GRANITE 9 Specifications](#).

Power Requirements 9.6 to 32 Vdc (voltage input)

Real-Time Clock Accuracy ±3 min. per year

Operating Temperature Range › Non-condensing environment
› -55° to +85°C (extended)

	› -40° to +70°C (standard)
Case Material	Stainless steel 304 and aluminum 6061
Communications Ports	› EPI › Ethernet › USB Micro B › USB host › CS I/O › 0 to 5 V serial › SDI-12 › RS-485 › RS-422 › CPI/RS-232
Data Storage Ports	› USB host › microSD
Digital I/O	8 terminals (C1 to C8) configurable for digital input and output. Terminals are configurable in pairs for 5 V or 3.3 V logic for some functions.
Internet Protocols	Ethernet, PPP, RNDIS, ICMP/Ping, Auto-IP (APIPA), IPv4, IPv6, UDP, TCP, TLS (v1.2), DNS, DHCP, SLAAC, Telnet, HTTP(S), SFTP, FTP(S), POP3/TLS, NTP, SMTP/TLS, SNMPv3, CS I/O IP
Communication Protocols	CPI, EPI PakBus, PakBus Encryption, SDM, SDI-12, Modbus RTU / ASCII /

	TCP, DNP3, custom user definable over serial, UDP, NTCIP, NMEA 0183, I2C, SPI
Warranty	› Optional: An additional 2 years (against defects in materials and workmanship), bringing the total to 5 years › 3 years standard (against defects in materials and workmanship)
Battery-backed SRAM for CPU Usage & Final Storage	4 MB
Data Storage	› 64 GB SSD › 4 MB SRAM + 128 MB NOR flash (Storage expansion of up to 16 GB with removable microSD flash memory card.)
Active Current Drain, Average	› 495 mA input (12 V input) › 255 mA input (24 V input) › ~6 W
Static Vibrating-Wire Measurements	Not supported
Dimensions	21.4 x 12.0 x 5.0 cm (8.4 x 4.7 x 2.0 in.) Additional clearance required for cables and leads.
Weight	1.0 kg (2.2 lb)

For comprehensive details, visit: www.campbellsci.com/granite9 



Campbell Scientific, Inc. | 815 W 1800 N | Logan, UT 84321-1784 | (435) 227-9120 | www.campbellsci.com
 AUSTRALIA | BRAZIL | CANADA | CHINA | COSTA RICA | FRANCE | GERMANY | INDIA | SOUTH AFRICA | SPAIN | THAILAND | UK | USA

© 2024 Campbell Scientific, Inc. | 02/16/2024