Granite 10
Measurement and Control Data-Acquisition System

Ideal for Automotive Testing Applications

Featuring CAN bus and CAN FD output

Overview

Similar to the Granite™9, the Granite™10 is the most computationally powerful data-acquisition device from Campbell Scientific. As an all-digital measurement and control DAQ, the Granite 10 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. Unlike the Granite 9, however, the Granite 10 also includes four general-purpose CAN channels. With its CAN channels, a larger 128 GB SSD, and extended temperature ranges, the Granite 10 is your ultimate tool for automotive testing.

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 128 GB solid-state hard drive (SSD)

❯ Built-in GPS for network synchronization

❯ General-purpose CAN channels

Detailed Description

The Granite 10 enables you to perform the following:

❯ Standard measurement functions

❯ Advanced math and processing functions

❯ Control functions

Specifications

-NOTE-	*Additional specifications are listed in the GRANITE 10 Specifications.*	Operating Temperature Range	❯ -40° to +70°C (standard)
			❯ *Non-condensing environment*
Power Requirements	9.6 to 32 Vdc (voltage input)		❯ -55° to +85°C (extended)
Real-Time Clock Accuracy	±3 min. per year		

For comprehensive details, visit: **www.campbellsci.com/granite10**

Case Material	Stainless steel 304 and aluminum 6061	Communication Protocols	CAN FD, CAN, CPI, EPI, PakBus, PakBus Encryption, SDM, SDI-12, Modbus RTU / ASCII / TCP, DNP3, custom user definable over serial, UDP, NTCIP, NMEA 0183, I2C, SPI
Pulse Counters	8 (C1 to C8)		
Communications Ports	❯ CPI/RS-232 ❯ EPI ❯ CAN FD ❯ CAN ❯ Ethernet ❯ USB Micro B ❯ USB host ❯ CS I/O ❯ 0 to 5 V serial ❯ SDI-12 ❯ RS-485 ❯ RS-422	Warranty	❯ 3 years standard (against defects in materials and workmanship) ❯ Optional: An additional 2 years (against defects in materials and workmanship), bringing the total to 5 years
		Battery-backed SRAM for CPU Usage & Final Storage	4 MB
		Data Storage	❯ 128 GB SSD ❯ 4 MB SRAM + 128 MB NOR flash (Storage expansion of up to 16 GB with removable microSD flash memory card.)
Data Storage Ports	❯ microSD ❯ USB host		
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.	Active Current Drain, Average	❯ 495 mA input (12 V input) ❯ 255 mA input (24 V input) ❯ ~6 W
		Static Vibrating-Wire Measurements	Not supported
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	Dimensions	21.4 x 12.0 x 7.5 cm (8.4 x 4.7 x 3.0 in.) Additional clearance required for cables and leads.
		Weight	1.2 kg (2.7 lb)

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