

CFM100

CompactFlash® Module

Campbell Scientific's CFM100 module stores the datalogger's data on a removable CompactFlash® (CF) card. The CFM100/CF card combination can be used to expand the datalogger's memory, transport data/programs from the field site(s) to the office, and store JPEG images when the CC640 digital camera is connected to the datalogger. The module connects to the 40-pin peripheral port on a CR1000 or CR3000 datalogger.

CF Cards¹

One Type I or Type II CF card fits into the module's slot. Campbell Scientific offers and recommends CF cards manufactured by Silicon Systems. Silicon Systems cards are industrial-grade and have passed our ESD testing.

Only industrial-grade CF cards with a storage capacity of 2 Gbytes or less should be used with our products. Although consumer-grade cards cost less than industrial-grade cards, the consumer-grade cards are more susceptible to failure resulting in both the loss of the card and its stored data. Industrial-grade cards also function over wider temperature ranges and have longer life spans than consumer-grade cards.

Data Retrieval

Data stored on the card can be retrieved either through a communications link with the datalogger or by removing the card and carrying it to a computer. The computer can read the CF card either with the computer's PCMCIA slot and the CF1 adapter or the computer's USB port and the 17752 Reader/Writer.



Campbell Scientific offers 256 Mbyte, 1 Gbyte (shown above), and 2 Gbyte industrial-grade CF cards.



Ordering Information

CompactFlash® Module

CFM100 CompactFlash Module for CR1000 or CR3000 dataloggers.

Temperature Range Options (choose one)

- ST** Tested -25° to +50°C
- XT** Tested -55° to +85°C

CompactFlash Cards

- CFMC256M** 256 Mbyte Industrial-grade CompactFlash Memory Card manufactured by Silicon Systems
- CFMC1G** 1 Gbyte Industrial-grade CompactFlash Memory Card manufactured by Silicon Systems
- CFMC2G** 2 Gbyte Industrial-grade Compact-Flash Memory Card manufactured by Silicon Systems

Reader/Writer or Adapter

- 17752** USB 2.0 Reader/Writer for Memory Cards
- CF1** SanDisk® CompactFlash Adapter for PCMCIA Slots

¹Only industrial-grade CF cards with a storage capacity of 2 Gbytes or less should be used with our products. For more information about CompactFlash cards, refer to www.campbellsci.com/documents/apnotes/pc_cf_cards.pdf

Specifications

CE Compliant Devices: CFM100, 17752 USB Reader/Writer

CFM100

Typical Access Speed: 200 to 400 kbytes s⁻¹

Memory Configuration: User selectable; ring (default) or fill-and-stop

Temperature Range

- Standard:** -25° to +50°C
- Extended:** -55° to +85°C

Power Requirements: 12 V supplied through the data-logger's peripheral port

Typical Current Drain

- RS-232 Port Active:** 30 mA (writing to card);
20 mA (reading card)
- RS-232 Port Not Active:** 20 mA (writing to card);
15 mA (reading card)
- Low Power Standby:** 700 to 800 µA

CF Card Requirements: Industrial-grade;
Storage capacity of 2 Gbytes or less

Datalogger Operating System (OS)

- CR1000:** Version OS4 or later
- CR3000:** All CR3000 OSs

Software Requirements

- LoggerNet:** Version 3.1.3 or later
- PC400:** Version 1.2.1 or later

Dimensions: 4.0-in x 3.3-in x 2.6-in
(10.0-cm x 8.3-cm x 6.5-cm)

Weight: 4.7 oz (133 g)

CFMC256M, CFMC1G, and CFMC2G

Manufacturer: Silicon Systems

Card Description: Industrial-grade CF cards that passed Campbell Scientific's ESD testing

Storage Capacity: 256 Mbyte, 1 Gbyte, or 2 Gbyte

Temperature Range: -40° to +85°C

Card Format: FAT32

CF1 Adapter

Manufacturer: SanDisk

Dimensions: 3.4-in x 2.1-in x 0.2-in
(8.6-cm x 5.4-cm x 0.5-cm)

17752 USB Reader/Writer

Minimum Computer Requirements

Windows: Vista, XP (SP1, SP2), 2000 (SP4)

MAC: OS X v. 10.3.x+

USB Port: USB 2.0

Dimensions: 3.5-in x 2.7-in x 0.75-in
(8.9-cm x 6.9-cm x 1.9-cm)

Weight: 3.6 oz (102 g)

