

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, and transport data/programs from the field site(s) to the office. The module connects to the 40-pin peripheral port on a CR1000 or CR3000 datalogger.

CF Cards

One Type I or Type II CF card fits into the module's slot. Campbell Scientific offers and recommends the CFMC256M, CFMC1G, or CFMC2G CF cards (see Ordering Information).

Only industrial-grade CF cards with a storage capacity of 2 GB 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.



The CF1 adapter allows data stored on a CF card to be read by a PC's PCMCIA slot.



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 MB Industrial-grade CompactFlash Memory Card. The card is formatted as FAT32.
- CFMC1G** 1 GB Industrial-grade CompactFlash Memory Card. The card is formatted as FAT32.
- CFMC2G** 2 GB Industrial-grade CompactFlash Memory Card. The card is formatted as FAT32.

Reader/Writer or Adapter

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

Specifications

CE Compliant Devices: CFM100, 17752 USB Reader/Writer

CFM100

Typical Access Speed: 200 to 400 kB 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 GB 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: 10.0 x 8.3 x 6.5cm
(4.0 x 3.3 x 2.6 in)

Weight: 133 g (4.7 oz)

CFMC256M, CFMC1G, and CFMC2G

Manufacturer: FMJ
Card Description: Industry standard Type I CF form factor. Includes integrated wear-leveling and ECC technology
Storage Capacity: 256 MB, 1 GB, or 2 GB
Operating Temperature: -40° to +85°C
Storage Temperature: -55° to +125°C
Compliance: RoHS
Card Format: FAT32
Dimensions: 4.28 x 3.64 x 0.33 cm
(1.69 x 1.43 x 0.13 in.)

CF1 Adapter

Manufacturer: SanDisk
Dimensions: 8.6 x 5.4 x 0.5 cm
(3.4 x 2.1 x 0.2 in.)

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: 8.9 x 6.9 x 1.9 cm
(3.5 x 2.7 x 0.75 in)
Weight: 102 g (3.6 oz)

