CFM100

CompactFlash® Module

CAMPBELL SCIENTIFIC®
WHEN MEASUREMENTS MATTER

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 Cards[1]

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

[1]Only 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 datalogger'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)

Printed November 2008