
CompactFlash® Module, Reader/Writer, Adapter, and Cards

CFM100, ImageMate®, CF1, CFM64M, CFM256M, CFM1G, CFM2G

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 ImageMate® Reader/Writer.

Ordering Information

CFM100	CompactFlash Module
CF1	SanDisk® CompactFlash Adapter for PCMCIA Slots
ImageMate	SanDisk ImageMate® USB 2.0 Reader/Writer for CompactFlash
CFMC64M	64 Mbyte Industrial-grade CompactFlash Memory Card manufactured by Silicon Systems
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 CompactFlash Memory Card manufactured by Silicon Systems



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

CFM100

Typical Access Speed: 200 to 400 kbytes s⁻¹

Memory Configuration:

user-selectable for either ring (default) or fill-and-stop

Temperature Range:

-35° to +65°C standard, -55° to +85°C extended

Power Requirements:

12 V supplied through the datalogger's peripheral port

Typical Current Drain

Writing to card, RS-232 port active: 30 mA

Reading card, RS-232 port active: 20 mA

Writing to card, RS-232 port not active: 20 mA

Reading card, RS-232 port not active: 15 mA

Low power standby state: 700 to 800 µA

CF Card Requirements:

- Industrial-grade
- Storage capacity of 2 Gbytes or less

Datalogger Operating System:

CR1000 operating systems Version Std.04 or later;
compatible with all CR3000 operating systems

Software Requirements:

LoggerNet 3.1.3 or later; PC400 1.2.1 or later

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

Weight: 4.7 oz (133 g)

CFMC64M, CFMC256M, CFMC1G, and CFMC2G

Manufacturer: Silicon Systems

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

Storage Capacity: 64 Mbyte, 256 Mbyte, 1 Gbyte, or 2 Gbyte

Temperature Range: -40° to +85°C

CF1 Adapter

Manufacturer: SanDisk

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

ImageMate

Manufacturer: SanDisk

Minimum Computer Requirements:

- Pentium class PC with USB support
- Windows 98SE, 2000, ME, XP
- CD-ROM drive
- USB 2.0 port required for high speed transfer
(full speed with USB 1.1)

Dimensions: 2.4" x 3.2" x 0.75" (6.1 x 8.2 x 1.9 cm)

Weight: 3.4 oz (97.16 g)



Campbell Scientific offers 64 Mbyte, 256 Mbyte, 1 Gbyte (shown above), and 2 Gbyte industrial-grade CF cards.



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



The ImageMate® is a single slot, high-speed reader and writer that allows data stored on a CF card to be read by a computer's USB port.

