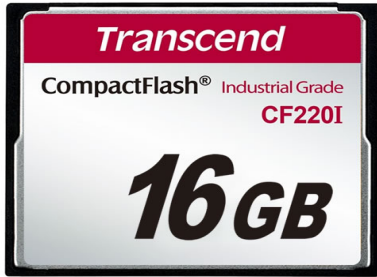


Memory

CompactFlash Card



Transcend Industrial CompactFlash Card, which weighs a half ounce and is the size of a

matchbook, is an ultra-small, removable data storage system. Introduced in October, 1994, CF provides complete PC Card-ATA functionality and compatibility. CF has built-in, industry-standard compatibility because the 50-pin CF card can be easily slipped into a passive 68 pin Type I/II adapter card that fully meets PC Card electrical and mechanical interface specifications.

High transfer rate for fast copy/download

High storage capacity

Non-volatile solid-state; no moving parts maximizes battery power.

Operating shock rating of 2,000 Gs

Automatic wear leveling

Available in Industrial Temperature range versions

Compatible with all of EMAC boards using a CompactFlash Socket

Compatible with all Embedded Operating Systems such as EMAC OE, Windows Embedded Standard, DOS, QNX, WinCE, NT Embedded, and XP Embedded

EmbedDisk Flash Modules



Using SD and Compact Flash is good from a price standpoint as they components leverage the

commodity marketplace. However the marketplace for these commodity Flash Cards is constantly changing. Flash densities, access times, and even access formats are always changing. To address this concern the EmbedDisk module was created. These modules are designed for the embedded market with industrial operating temperature range (-40 to +85C) and have a long product lifetimes to meet embedded product needs.

The EmbedDisk uses the conventional IDE drive interface and comes in a 44 pin variety and can be used on any SBC with a standard IDE interface. Some SBCs that do not feature a Compact Flash or SD socket are designed to use EmbedDisk.

Compatible with 44 pin IDE interface

No seek error & no noise

High performance

Low power consumption

Full boot capability

No latency delay

Hot Swappable

Cost effective solution

Shock resistant & anti-vibration

Compatible with all of EMAC boards providing a standard IDE interface

Compatible with all Embedded Operating Systems such as EMAC Linux/Real Time Linux, DOS, WinCE, and XP Embedded.

Industrial Temperature Range (-40 ° C to 85 ° C)

Note: because the EmbedDisk drives mount directly onto the IDE connector on most boards, copying files and duplicating software from one drive to another is very difficult. The PER-ADP-00017 is an IDE adapter designed to allow connecting an EmbedDisk in series with another IDE drive, to a USB to IDE adapter, as well as being able to change a 44 Pin EmbedDisk to a 44 pin IDE cable using device. This will allow the user to copy files, backup, or duplicate the contents from an EmbedDisk device to another drive or computer.

SD Flash Cards



SD/MMC (Secure Digital / Multi-Media Card) is fast becoming the new standard in Embedded Storage. Small size, highly rugged and fast read/write times make this the ideal flash format.

Small Size (24mm x 32mm)

High Storage Capacity (SDHC)

High performance

Can use 4-bit SD or SPI access modes

Full boot capability

Automatic wear leveling

Hot Swappable

Cost effective solution

Low power consumption

Compatible with all of EMAC boards using a SD/MMC Socket

Compatible with all Embedded Operating Systems such as EMAC Linux/Real Time Linux, DOS, WinCE, and XP Embedded.

microSD Card



The microSD format was created by SanDisk. It is the smallest memory card available commercially; at $15 \times 11 \times 1$ mm (about the size of a fingernail), it is about a quarter the size of a standard-sized SD card. TransFlash and microSD cards are the same (each can be used in devices made for the other), except that microSD adds support for SDIO mode, enabling non-memory cards like Bluetooth, GPS, and Near Field Communication devices.

microSD cards with a memory capacity larger than 2 GB are microSDHC, which uses the exact same technology as SDHC, just in the smaller microSD size. The "HC" stands for "high capacity."

Small Size (15mm x 11mm)

High Storage Capacity (SDHC)

High performance (SD Class 6)

Can use 4-bit SD or SPI access modes

Full boot capability

Automatic wear leveling

Hot Swappable

Cost effective solution

Low power consumption (near zero when idle, typically 45mA during transfers, max of about 100mA)

Compatible with all of EMAC boards using a SD/MMC Socket

Compatible with all Embedded Operating Systems such as EMAC Linux/Real Time Linux, DOS, WinCE, and XP Embedded.



CompactFlash

PRODUCT #	Short Description	Price
PER-FLS-00053-R	8GB CompactFlash Card Standard (-25°C to 85°C)	Call
PER-FLS-00050-R	4GB CompactFlash Card Industrial Temp. (-40~85°C)	Call
PER-FLS-00053-A	8GB CompactFlash Card Standard	Call
PER-FLS-00052-R	8GB CompactFlash Card Industrial Temp. (-40~85°C)	Call
PER-FLS-00055-R	16GB CompactFlash Card Standard	Call
PER-FLS-00054-R	16GB CompactFlash Card Industrial Temp. (-40~85°C)	Call
PER-FLS-00047-R	1GB CompactFlash Card WideTemp Industrial	Call
PER-FLS-00202-R	CFAST INDUSTRIAL 16G MLC StdTemp	Call

EmbedDisk

PRODUCT #	Short Description	Price
PER-FLS-00148	512 MB Embeddisk 44p HL (Internal)	Call
PER-FLS-00169	1 GB Embeddisk 44p HL	Call
PER-FLS-00056-R	32GB CompactFlash Card Standard	Call
PER-FLS-00150-R	512MB EmbedDisk HR44 for EBOX	Call
PER-FLS-00232-R	16GB SATA DOM 7+15PIN MLC	Call
PER-FLS-00112-R	Half-Size mSATA Flash module 16GB MLC StdTemp	Call
PER-DRV-00211	2.5" SATA SSD 32GB Standard Temp	Call
PER-FLS-00091-R	mSATA Flash module 32GB MLC Std	Call
PER-FLS-00102-R	mSATA Flash module 32GB MLC (-40 to 85°C)	Call

SD Flash Cards

PRODUCT #	Short Description	Price
PER-FLS-00061	SD flash card 128MB	Call

microSD Flash

PRODUCT #	Short Description	Price
PER-FLS-00082	4 GB microSDHC Flash Card	Call
PER-FLS-00084	8 GB microSDHC Flash Card	Call

Source URL: <https://www.emacinc.com/products/peripherals/memory>