



NETLIST

COMPACT FLASH

For environments that mandate exposure to extreme temperature, shock, vibration, humidity, altitude, and ESD levels, Netlist's CF card is the optimal solution. For mission-critical applications such as networking equipment, POS terminals, data recorders, and medical appliances, Netlist's industrial grade CF card is the natural choice.

FEATURES

- Hot swappable
- CFA compliant
- Type I (64MB to 8GB), Type II (16GB)
- ESD Level: Up to 8kV for contact discharge; Up to 15kV for air discharge
- Low power consumption
- ATA interface and True IDE mode support
- 3,000,000 write/erase cycle guarantee
- 5 year warranty



PC CARD

Utilizing the tried and true form factor defined by the PCMCIA, the Netlist Industrial Grade PC Card is a Type II solution that performs the same function as a hard disk drive. The Netlist solid state device was designed for mission critical applications requiring absolute data integrity including telecommunications, mining, and military systems.

FEATURES

- Hot swappable
- PCMCIA compliant
- ATA and True IDE interfaces
- Low power consumption
- 3,000,000 write/erase cycle guarantee
- 5 year warranty



SECURE DIGITAL

Netlist's Industrial Grade Secure Digital (SD) flash memory cards are reliable, rugged, and durable while occupying minimal board space. The Netlist non-volatile flash cards are optimized for extreme environments and will outlast their cheaper, consumer counterparts.

FEATURES

- All cards support the full industrial operating temperature range (-40°C to +85°C)
- Available as either SD 1.1 or SD 2.0 (SDHC) compliant solutions
- Supports SD mode and SPI mode
- 3,000,000 write/erase cycle guarantee
- 5 year warranty



2.5" SOLID STATE DRIVE

The Netlist Industrial Grade 2.5" Parallel ATA (PATA) Solid State Drive is the best solution to replace a low capacity rotating HDD. Systems requiring up to 32GB of storage will benefit from the lower total cost of ownership and the overall reliability improvement.

FEATURES

- Solid State Drive with Parallel ATA interface
- Drop-in replacement for rotating HDD
- Industry standard 2.5" drive form factor
- Built in static wear leveling
- 3,000,000 write/erase cycle guarantee
- 5 year warranty



FLASH PRODUCTS SPECIFICATIONS

FORM FACTOR	CAPACITY	SUSTAINED READ/WRITE SPEED	INTERFACE	SUPPORTED OPERATING SYSTEMS
CompactFlash	64MB to 16GB	Up to 10MB/s and Up to 25MB/s	ATA with True IDE mode support, MWDMA 50-pin CF Interface	Any OS supporting standard IDE
PC Card	64MB to 16GB	Up to 10MB/s	ATA with True IDE mode support, MWDMA 68-pin PCMCIA Interface	Any OS supporting standard IDE
Secure Digital (SD 1.1) and Secure Digital High Capacity (SDHC, SD 2.0)	256MB to 2GB	Up to 15MB/s	SD 1-bit Interface	Any OS supporting SD/MMC/SPI
	256MB to 8GB	Up to 25MB/s	SD 4-bit Interface	Any OS supporting SDHC
2.5" Solid State Drive	128MB to 32GB	Up to 25MB/s	Parallel ATA with True IDE mode support, MWDMA 44-pin IDE Interface	Any OS supporting standard IDE

STANDARD SPECIFICATION

Error Correction and Wear Leveling	6 symbol Reed Solomon ECC; High performance 32-bit RISC architecture
Guaranteed Write/Erase Cycles	3,000,000
NAND Flash	SLC
RoHS-Compliant	Yes
Operating Temperature	Commercial (0°C to 70°C) Industrial (-40°C to +85°C)
Warranty	Five years

- Netlist uses industrial temperature-rated components (both the controller and the SLC NAND flash) for its industrial temperature flash products; we do not merely screen out products manufactured with commercial temperature-rated components.
- Controlled BOM's
 - Capability of customer-specific locked BOM's
 - Full product traceability
 - Standard PCN procedure



NETLIST

Flash Products Part Number Decoder

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1	2	3	4	5	6	7	8	9	10	11	12	

1, 2 = Manufacturer

NL = Netlist

3, 4 = Product Type

CF = Industrial Grade CompactFlash

PC = Industrial Grade PC Card

SD = Industrial Grade SD Card²

2P = 2.5" PATA Solid State Drive (SSD)²

5, 6, 7 = Density

064 = 64MB

02G = 2GB

012 = 128MB

04G = 4GB

025 = 256MB

08G = 8GB

051 = 512MB

16G = 16GB²

01G = 1GB

32G = 32GB²

8 = Feature Set A

M = Multiword DMA Enabled

P = PIO Mode (MWDMA-Disabled)

1 = SD1.1 compliant, when Field 9 is "1"

2 = SD2.0 compliant, when Field 9 is "0"

9 = Feature Set B

R = Removable

F = Fixed (True IDE)

A = Auto detect. Fixed in IDE Mode And Removable in PC Card Mode¹

W = Write Protection²

L = Life Cycle Management Feature

1 = SD1.1 compliant, when Field 8 is "1"

0 = SD2.0 compliant, when Field 8 is "2"

10 = Temperature Range

C = Commercial (0°C to +70°C)

I = Industrial (-40°C to 85°C)

11 = "-"

12 = Flash Interface

1 = Single Channel

2 = Dual Channel²

¹Only available for 512MB, 1GB, 2GB, 4GB, and 8GB densities.

²Coming soon.



NETLIST

INDUSTRIAL GRADE FLASH PRODUCTS



Netlist's (NASDAQ: NLIST) core competency is the development of memory subsystems using proprietary printed circuit board (PCB) designs and state-of-the-art materials and packages. Netlist™ memory subsystems are used in high-performance computing applications, servers in all form factors, mobile computing and workstations. The memory subsystems designed by Netlist™ provide significant improvements over industry standard design concepts at lower costs. Netlist designs and manufactures high-performance memory subsystems at its ISO-9001:2000, ISO-14001 and OSHAS-18001 facilities in Irvine, CA, and Suzhou, China.



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