

Full Metal Card 2nd Edition

Storage media with DataSafe™ full metal case for maximum reliability

- ◆ ATA Flash Type II PC Cards; memory technology based on SiliconDrive™ Industrial Grade quality; True IDE Mode
- ◆ Four versions: **Solid** version, versions to **IP54** and **IP68** specifications, **Hermetic Military** version with fully sealed case
- ◆ All versions are mechanically very rugged – high resistance to vibration and shock; IP54 versions and above have an extended temperature range
- ◆ Unique metal case design ensures high resistance to deformation, EMC, excellent protection against ESD and corrosion
- ◆ Customer specific versions like /v.3 with SiliconSystems security option SiSweep™ on request available
- ◆ IP54 versions and above dust and moisture proof; Military versions can be submerged to a depth of 30 meters
- ◆ Capacities from 32 MB to 8.0 GB



V2A stainless steel case of Solid, IP54 and IP68 versions. Case of high-strength bronze alloy of the Hermetic Military version.

Up To 7 Years Warranty

Technical Specifications

Hardware – Interface – Dimensions – Weight	ATA Flash PC Card, True IDE; 68-pin PC Card Type II; Length x Width x Height: 85,6 x 54 x 5 mm approx. 50 g; Military approx. 70 g	Reliability – ECC – MTBF at 25°C – Endurance – Data Reliability	6 bit > 4,000,000 hours > 2,000,000 write/erase cycles < 1 non-recoverable error in 10 ¹⁴ bits read	
Power Requirements – DC Input Voltage – Power Consumption typ.	3,3 Volt ±10%; 5 Volt ±10% <0,5mA (3,3V); <1,0mA (5V) (Sleep) 30mA (3,3V); 40mA (5V) (Write)	Startup Time – Reset to Ready	200 msec typ.; 400 msec max.	
Acoustic Noise	0 dB at 1 meter	Transfer Rate – Typical Read/Write	8 MB/sec (Read); 6 MB/sec (Write)	
Version: – Frame material – Cover / filling material	Solid CuNi ₉ Sn ₂ coated V2A stainless steel / –	IP54 CuNi ₉ Sn ₂ coated V2A stainless steel / –	IP68 CuNi ₉ Sn ₂ coated V2A stainless steel / –	Military CuNi ₉ Sn ₂ CuNi ₉ Sn ₂ /Stycast W 19
Environmental Specifications – Temperature (operating) (non operating) – Humidity – Shock (half sine; 0,5 ms) – Vibration (random) (sine) – Altitude – Diving Depth (non operating)	0° to +70°C –55° to +125°C max. 8–95%, non-cond. 1,000 G 16,3 G RMS – 80,000 feet max. –	–40° to +85°C –55° to +125°C max. 8–95%, non-cond. 1,000 G 16,3 G RMS – 80,000 feet max. –	–40° to +85°C –55° to +125°C max. 8–95%, non-cond. 1,000 G 16,3 G RMS – 1 m	–40° to +85°C –55° to +125°C max. >95%, condensing 3,000 G max. 24 G RMS (72 G max.) 30 G peak to peak 80,000 feet 30 m
PC Card to function after – Bend – Stability Case Top – Torsion	< 4 mm at 100 N 5 Nm < 3°	< 4 mm at 100 N 5 Nm < 3°	< 4 mm at 100 N 5 Nm < 3°	< 4 mm at 150 N < 0,5 mm at 40 N 6 Nm < 3°
Connector Durability – Plug Cycles (office environm.) (harsh environment)	10,000 –	10,000	10,000	10,000
Warranty	5 years	5 years	7 years	2 years

Full Metal Card 2 nd Edition	Item no.*
Full Metal Card 2 nd Edition Solid	13DLxxxG/v.1
Full Metal Card 2 nd Edition IP54	13DLxxxGP/v.1
Full Metal Card 2 nd Edition IP68	13DLxxxG68/v.1
Full Metal Card 2 nd Edition Military	13DLxxxGM/v.1

* xxx = capacity in MB; v.1 = Version 01