

Full Metal Card 3rd Generation



Stainless steel case (V2A) of IP54 and IP68 versions. Case of high-strength bronze alloy of the Hermetic Military version.

Up To 7 Years Warranty

Storage media with DataSafe™ full metal case for maximum reliability

- ◆ ATA/UDMA Flash Type II PC Cards; memory technology based on SiliconSystem™ Industrial Grade quality; True IDE Mode
- ◆ Unique technologies SiSecure™, SiMART™, PowerArmor™ and patented Wear-Leveling from SiliconSystems; manufactured in SLC-NAND Flash, durable and high transfer rates for small files
- ◆ Three versions: **IP54** Version, **IP68** Version and **Hermetic Military** version with fully sealed case
- ◆ Mechanically very rugged – high resistance to vibration and shock; industrial temperature range from -40° to +85°C
- ◆ Full metal case design ensures high resistance to deformation, EMC, excellent protection against ESD and corrosion
- ◆ Capacities from 1 GB to 16 GB

Full Metal Card 3 rd Generation	Item no.*
Full Metal Card	
3 rd Generation IP54	14DLxxxGP
Full Metal Card	
3 rd Generation IP68	14DLxxxG68
Full Metal Card	
3 rd Generation Military	14DLxxxGM

* xxx = capacity in MB

Technical Specifications

Hardware – Interface: ATA Flash PC Card, True IDE; 68-pol. – Dimensions: PC Card Typ II; Length x Width x Height: 85,6 x 54 x 5 mm – Weight: approx. 50 g; Military approx. 70 g Power Requirements – DC Input Voltage: 3,3 Volt ±10%; 5 Volt ±10% – Power Consumption typ. <0,5mA (3,3V); <1,0mA (5V) (Sleep) 30mA (3,3V); 40mA (5V) (Write) Acoustic Noise : 0 dB at 1 meter	Reliability – ECC: 6 bit – MTBF at 25°C: > 4,000,000 hours – Endurance: > 2,000,000 write/erase cycles – Data Reliability: < 1 non-recoverable error in 10 ¹⁴ bits read Startup Time – Reset to Ready: 200 msec typ.; 400 msec max. Transfer Rate – Read/Write: (max.) 34 MB/sec / 19 MB/sec
Version – Frame material: CuNi ₉ Sn ₂ coated – Cover / filling material: V2A stainless steel / – Environmental Specifications – Temperature (operating) (non operating): -40° to +85°C / -55° to +125°C max. – Humidity: 8–95%, non-cond. – Shock (half sine; 0,5 ms): 1.000 G – Vibration (random) (sine): 16,3 G RMS / – – Altitude: 80.000 feet max. – Diving Depth (non operating): – PC Card to function after – Bend: < 4 mm at 100 N – Stability Case Top – Torsion: 5 Nm < 3° Connector Durability – Plug Cycles (harsh environment): 10.000 Warranty : 5 years	IP54 – Frame material: CuNi ₉ Sn ₂ coated – Cover / filling material: V2A stainless steel / – – Temperature (operating) (non operating): -40° to +85°C / -55° to +125°C max. – Humidity: 8–95%, non-cond. – Shock (half sine; 0,5 ms): 1.000 G – Vibration (random) (sine): 16,3 G RMS / – – Altitude: 80.000 feet max. – Diving Depth (non operating): – PC Card to function after – Bend: < 4 mm at 100 N – Stability Case Top – Torsion: 5 Nm < 3° Connector Durability – Plug Cycles (harsh environment): 10.000 Warranty : 7 years
IP68 – Frame material: CuNi ₉ Sn ₂ coated – Cover / filling material: V2A stainless steel / – – Temperature (operating) (non operating): -40° to +85°C / -55° to +125°C max. – Humidity: 8–95%, non-cond. – Shock (half sine; 0,5 ms): 1.000 G – Vibration (random) (sine): 16,3 G RMS / – – Altitude: 80.000 feet max. – Diving Depth (non operating): 1 m PC Card to function after – Bend: < 4 mm at 100 N – Stability Case Top – Torsion: 5 Nm < 3° Connector Durability – Plug Cycles (harsh environment): 10.000 Warranty : 7 years	Hermetic Military – Frame material: CuNi ₉ Sn ₂ – Cover / filling material: CuNi ₉ Sn ₂ / Stycast W 19 – Temperature (operating) (non operating): -40° to +85°C / -55° to +125°C max. – Humidity: >95%, condensing – Shock (half sine; 0,5 ms): 3.000 G max. – Vibration (random) (sine): 24 G RMS (72 G max.) 30 G Peak to Peak – Altitude: 80.000 feet – Diving Depth (non operating): 30 m PC Card to function after – Bend: < 4 mm at 150 N – Stability Case Top: < 0,5 mm at 40 N – Torsion: 6 Nm < 3° Connector Durability – Plug Cycles (harsh environment): 10.000 Warranty : 2 years