

# Full Metal Card 3<sup>rd</sup> Generation



**10 Years Warranty  
on the full metal case\***  
\* with proper treatment

## Storage media with full metal case for maximum reliability

- ◆ ATA/UDMA Flash Type II PC Cards; memory technology based on Western Digital SiliconDrive™ Industrial Grade quality; True IDE Mode
- ◆ 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
- ◆ 10 Years Warranty on the full metal case
- ◆ Capacities up to 16 GB with Western Digital assembly; different flash memory assembly on request

Full Metal Card 3 <sup>rd</sup> Generation	Item no.*
Full Metal Card	
3 <sup>rd</sup> Generation IP54	20FMxx54
Full Metal Card	
3 <sup>rd</sup> Generation IP68	20FMxx68
Full Metal Card	
3 <sup>rd</sup> Generation Military	20FMxxMIL

\* xx = capacity in GB

## Technical Specifications

<b>Hardware</b> – 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. 50g; Military approx. 70g <b>Power Requirements</b> – DC Input Voltage: 3,3 Volt ±10%; 5 Volt ±10% – Power Consumption typ. <0,6mA (3,3V); <1,3mA (5V) (Sleep) (max.) 145mA (3,3V); 148mA (5V) (Write)	<b>Acoustic Noise</b> 0 dB at 1 meter <b>Reliability</b> – MTBF at 25°C > 1,750,000 hours – Data Reliability < 1 non-recoverable error in 10 <sup>14</sup> bits read <b>Transfer Rate</b> – Read/Write (max.) 34 MB/sec / 19 MB/sec		
<b>Version</b> – Frame material – Cover / filling material <b>Environmental Specifications</b> – Temperature (operating) (non operating) – Humidity – Shock (half sine; 0,5 ms) – Vibration (random) (sine) – Altitude – Diving Depth (non operating) <b>PC Card to function after</b> – Bend – Stability Case Top – Torsion <b>Connector Durability</b> – Plug Cycles (harsh environment) <b>Warranty</b>	<b>IP54</b> CuNi <sub>9</sub> Sn <sub>2</sub> , nickel-plated Stainless steel V2A/ – –40° to +85°C –55° to +125°C max. 8–95%, non-cond. 1.000 G 16,3 G RMS – 80.000 feet max. – < 4 mm at 100 N 5 Nm < 3° 10.000 5 years	<b>IP68</b> CuNi <sub>9</sub> Sn <sub>2</sub> , nickel-plated Stainless steel V2A/ – –40° to +85°C –55° to +125°C max. 8–95%, non-cond. 1.000 G 16,3 G RMS – 1 m < 4 mm at 100 N 5 Nm < 3° 10.000 5 years	<b>Hermetic Military</b> CuNi <sub>9</sub> Sn <sub>2</sub> , nickel-plated Stainless steel V2A/Stycast W 19 –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 < 4 mm at 150 N < 0,5 mm at 40 N 6 Nm < 3° 10.000 2 years