

# MEMORY CARDS

## Industrial Grade 3.0 Secure Digital Card



- Comply to the Secure Digital Association / SDA standard
- SLC NAND Flash technology use DCS (Data clone System)
- Capacity 1GB ~ 2GB Class 6, 4GB ~ 32GB Class 10
- Temperature range -25°C or -40°C ~ 85°C
- Conforms to ISO7816-1 UV Guard & X-Ray Proof
- Extreme rugged, vibration, water and shock resistant
- Smart support for easy lifespan monitoring (optional)
- Made in Taiwan - Fixed BOM

### Technical data:

#### Electrical & performance:

Interface:	9-pin. Supports both version 2.0 & 3.0
Operating frequency:	50MHz
DC input voltage:	2.7-3.6VDC
Power consumption:	110mA (typical)
Transfer rate R/W:	20/20MB/s for 1-2GB, 35/35MB/s for 4-8GB and 65/55MB/s for 16-32GB.

#### Environmental:

Temperature range:	-25°C ~ +85°C or -40° C ~ +85°C
Storage temperature:	-40° C ~ +85°C
Humidity:	10% ~ 95%, non-condensing
Vibration:	5G (10-500Hz), 20G (60-2000Hz)
Shock:	1500G (0.5ms)
ESD proof:	Yes, +/-4kV
Acoustic noise:	0dB
IP class:	IPX7

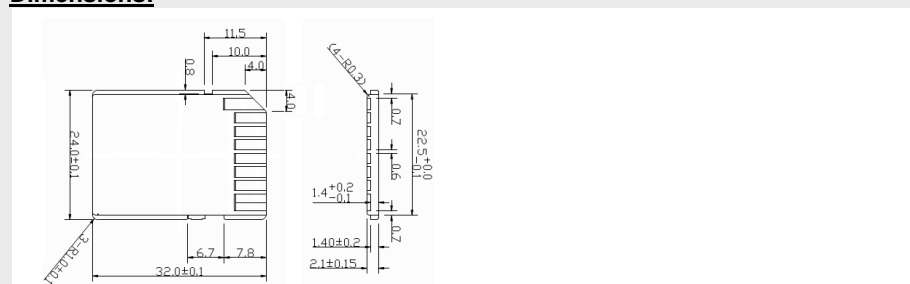
#### Reliability:

Endurance:	>2.000.000 cycles
Program/Erase cycles:	SLC: 100.000 times
Data retention:	10 years
Number of Insertion reliability:	10.000 times
MTBF:	3.000.000 hours

#### Mechanical & Certificates:

Size:	32x24x2.1mm
Weight:	2g (SD card only), 7g packed in small minicase
Certificate:	CE/FCC/RoHS/BSMI

#### Dimensions:



#### Ordering information:

Standard temp range (-25°C)	Wide temp range (-40°C)	Capacity
iSD2PH01GE1GE06-PM	iSD2PH01GE1GI06-PM	1GB
iSD2PH02GE1GE06-PM	iSD2PH02GE1GI06-PM	2GB
iSD2PH04GE1GE10-PM	iSD2PH04GE1GI10-PM	4GB
iSD2PH08GE1GE10-PM	iSD2PH08GE1GI10-PM	8GB
iSD2PH016GE1GE10-PM	iSD2PH016GE1GI10-PM	16GB
iSD2PH032GE1GE10-PM	iSD2PH032GE1GI10-PM	32GB