

# **PhotoFast G-Monster-1.8" V4 IDE / P-ATA**

1.8" MLC SSD IDE (available connectors: ZIF, 50-Pin, 44-Pin)

## **Specifications\*:**

- ◆ form factor: 1.8"
- ◆ flash type: MLC (SLC available, faster writing, 100-fold longer lifetime)
- ◆ interface: native IDE/P-ATA (ZIF 40-Pin, IDE 50-Pin, 44-Pin)
- ◆ on-board cache: 64 MB SDRAM
- ◆ shock resistance: 1500G
- ◆ vibration resistance: 20G
- ◆ operation Voltage: DC 3.3V +- 5
- ◆ low power consumption:
  - operation: 200mA ~ 450mA (typical)
  - standby: 3mA ~ 5mA (typical)
- ◆ operation temperature: 0°C to +70°C
- ◆ storage temperature: -25°C to +85°C
- ◆ operating / storage humidity (non condensation): 5% to 95%
- ◆ MTBF: 1,000,000 hours
- ◆ data retention: 10 years at + 25°C
- ◆ dimensions [mm]:

40-Pin ZIF:	70	x 52	x 5	(+/-0.5)
50-Pin "Toshiba Type":	74.5	x 54	x 5	(+/-0.5)
44-Pin "IBM-X-Type":	70	x 60	x 8.5	(+/-0.5)
- ◆ weight: 45g +- 15

\*manufacturer's data

## Features\*:

- ◆ available in 32GB, 64GB, 128GB, 256GB (256GB MLC only)
- ◆ sequential read: up to 128MB/s
- ◆ sequential write: up to 90MB/s
- ◆ 4k random write: up to 3 MB/s
- ◆ random Read: 5,200 IOPS at IOMeter 4KB Transaction with MLC
- ◆ random Write: 300 IOPS at IOMeter 4KB Transaction with MLC
- ◆ garbage collection
  
- ◆ host-Interface: ATA7
- ◆ supports IDE PIO mode 0 to 4
- ◆ supports IDE Multi-Word DMA mode 0 to 2
- ◆ supports IDE Ultra DMA mode 0 to 6
  
- ◆ built-in ECC (Error Correction Code, corrects up to 18-bits error)
- ◆ supports S.M.A.R.T. (Self-Monitor Analysis and Reporting Technology)
- ◆ supports ATA security command set
- ◆ bootable: DOS, WinCE, Win2000/XP/Vista/7, Linux, Mac OS X
- ◆ support Global Wear Leveling technology
- ◆ built-in dynamic power management for enhanced endurance
- ◆ shock Resistance
- ◆ CE, FCC certified
- ◆ RoHS compliant
- ◆ designed in Japan
- ◆ assembled in Taiwan
- ◆ 1 year manufacturer warranty

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