

# PREDATOR GT

## 2.5-INCH SATA-II SSD



### Ordering Information

Part Number	Description
S64G-25P	64GB Predator GT
S128G-25P	128GB Predator GT

### General Description

The Predator™ GT SSD (GT) is an extreme performance 3Gbps SATA-II storage product that is 100% interchangeable with standard SATA-II hard disk drives (HDDs). The GT offers substantially faster performance than HDDs, which is most noticeable in bootup speed, application load times and shutdown time. The GT also resists shock and vibration far better than HDDs. The GT is so power efficient that it uses only about 0.5 watts of power while reading, which translates to less fan noise and extended battery life in laptops. This SSD is ideal as a boot drive for high performance desktops and laptops alike.



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## Features and Specifications

- Capacities  
64GB / 128GB
  
- Form Factor  
2.5-inch form factor, compatible with 2.5-inch HDDs  
Dimensions: 3.94 x 2.75 x 0.37 inches (100 x 70 x 9.5 mm)  
3.5-inch adapter bracket sold separately
  
- Host Interface  
3.0 Gbps Serial ATA  
HIPM / DIPM power saving modes  
Supports 32 depth NCQ
  
- Performance  
8-channel controller  
Cache: 128MB SDRAM  
Sustained Read speed: 220 MB/sec  
Sustained Write speed: 200 MB/sec (128GB); 120 MB/sec (64GB)  
Access time: 0.1ms
  
- Power Consumption  
Read: 0.53 W  
Write: 1.22 W  
Idle: 0.15 W  
Supply voltage: 5V ± 5%
  
- Temperature Range  
Operating: 0°C to 70°C  
Storage: -55°C to 95°C
  
- Shock and Vibration  
Shock (operating): 1500G  
Vibration: 20G peak
  
- Reliability  
Sophisticated wear leveling algorithms extend the life of the drive  
Bad bit management maps out bad bits to prevent errors  
Server-class error correction (ECC) built-in  
MTBF: 1,000,000 hours  
Endurance (Write/Erase cycles): 100,000  
Endurance (Read cycles): Unlimited
  
- Supports SMART Feature Set commands

## Pin Assignments

	Pin No.	Signal	Plug Connector pin definition
Signal	S1	GND	2 <sup>nd</sup> mate
	S2	A+	Differential signal A from Phy
	S3	A-	
	S4	GND	2 <sup>nd</sup> mate
	S5	B-	Differential Signal B from Phy
	S6	B+	
	S7	GND	2 <sup>nd</sup> mate
Key and spacing separate signal and power segments			
Power	P1	V33	3.3V power (unused)
	P2	V33	3.3V power (unused)
	P3	V33	3.3V power, pre-charge, 2 <sup>nd</sup> mate (unused)
	P4	GND	1 <sup>st</sup> mate
	P5	GND	2 <sup>nd</sup> mate
	P6	GND	2 <sup>nd</sup> mate
	P7	V5	5V power, pre-charge, 2 <sup>nd</sup> mate
	P8	V5	5V power
	P9	V5	5V power
	P10	GND	2 <sup>nd</sup> mate
	P11	DAS/DSS	Device Activity Signal
	P12	GND	1 <sup>st</sup> mate
	P13	V12	12V power, pre-charge, 2 <sup>nd</sup> mate (unused)
	P14	V12	12V power (unused)
	P15	V12	12V power (unused)

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