



Product Brief

Intel® NAND Storage Solutions

Intel® Z-P140 PATA Solid State Drive

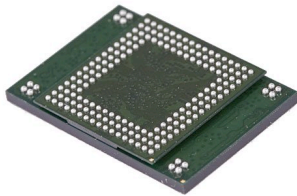
Enabling smaller, faster, and lighter computing through storage innovation



Product Overview

The Intel® Z-P140 PATA Solid State Drive (SSD) is an ultra-small, complete storage solution for mobile, digital entertainment, and embedded applications, offering low-power, high performance, and durability..

Using the industry standard PATA interface, the Intel® Z-P140 PATA SSD offers the capacity and features to accelerate computing trends towards greater mobility.



Specifically designed for small form factor requirements, the Intel® Z-P140 PATA SSD is small and lighter than a coin, the ideal solution to meet the next generation of ultra-mobile computing.

Right Fit

Using the standard PATA interface, chipscale package-on-package technology, and a form factor significantly smaller than hard disk drives, the Z-P140 PATA SSD enables smaller and easier storage design.

Right Capacity

2, 4, 8, and 16GB capacities are enough to support operating system storage, applications, data, and media storage, meeting mainstream density requirements for most computing markets.

Right Performance

Fast to boot, load, and run applications, with low power and extended durability, solid state technology has no moving parts, allowing for faster system response and longer battery life.

Intel® Z-P140 PATA Solid State Drive Specifications

Features	Benefits
Solid State Performance	Faster random access due to no mechanical latency
Greener Technology	No spinning platters means lower power consumption
Smaller Size	400x smaller than a 1.8" hard-drive for small form factors
Light Weight	As light as a standard paper clip
Standard Interface	PATA interface is natively supported by standard Operating Systems
Flexible Capacity	Capacity expandable by adding up to three additional NAND devices

Technical Specifications	
Model Name	Intel® Z-P1 40 PATA Solid State Drive
Capacity	2GB - 4GB, expandable up to 16GB
Size	12 x 18 x 1.8mm
Weight	0.6 grams
Interface	Parallel-ATA (IDE)
Form Factor	Ultra-Small Package-on-Package BGA Solution
NAND Devices	Intel® NAND Flash Memory SD54B and SD58B
Read Throughput	40 Megabytes / sec
Write Throughput	30 Megabytes / sec
Power Consumption	Idle: 1.1mW Operating: 300mW Typical
Mean-Time Between Failures	2,500,000 hours
Voltage	3.3v I/O and Control Voltages
Operating Temperature	0°C to +70°C
Humidity Non-Operating	5% to 95% RH non-condensing (at temperatures 25°C-80°C)
RoHS Compliance	Meets the requirements of the EU RoHS Compliance Directives

For more information, visit www.intel.com/go/nand

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL® PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER, AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. Intel products are not intended for use in medical, life-saving, or lifesustaining applications. Intel may make changes to specifications and product descriptions at any time, without notice.

Intel, the Intel logo, Intel. Leap ahead., and the Intel. Leap ahead. logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

*Other names and brands may be claimed as the property of others.
Copyright © 2007, Intel Corporation. All rights reserved.

1207 / RA Please Recycle
318900-001 US

