TECHNICAL SPECIFICATIONS



z3975 Embedded Controller PXI Express





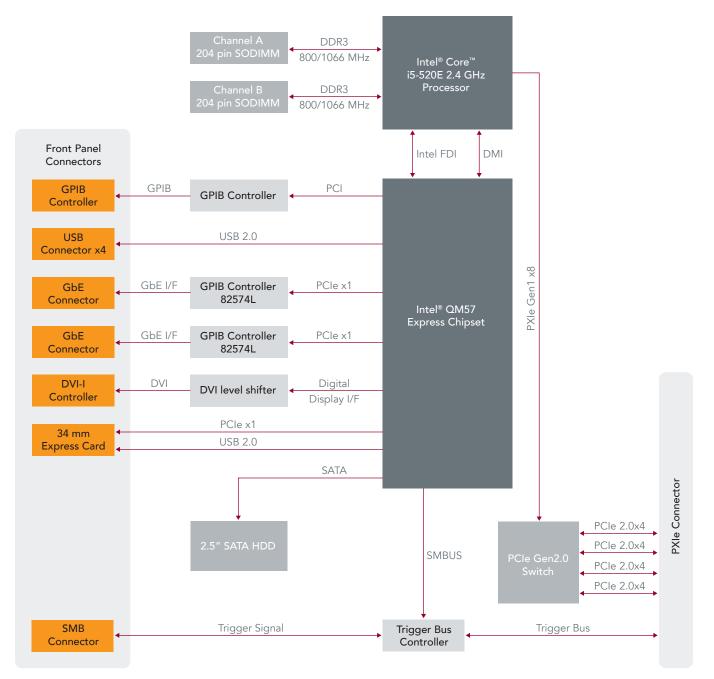
Port Descriptions



Trigger: bi-directional external trigger port (SMB) Dual GbE ports Four USB 2.0 ports DVI display connector ExpressCard/34 expansion slot Micro-D GPIB connector

LED	Description
HD	Flashes YELLOW for disk access
WD	Watchdog timer: lighted RED when timer expired
HS	STATUS: blinks BLUE once during boot if OK; continuous blinking or ON if fault found
PW	System power. GREEN when normal operation.

Block Diagram



Specifications

Specification	Value
CPU	Intel [®] Core™ i5-520E 2.4 GHz
Memory	Dual channel DDR3 SODIMM 4 GB 1066 MHz
Maximum throughput	2 GB/s
PXI Express Link	4 links: x4 x4 x x4 2 links: x8 x8
Integrated SATA storage	320 GB HDD or 160 GB SDD
Integrated I/O	Dual Gigabit Ethernet ports 4 USB 2.0 ports Built-in GPIB (IEEE-488) controller DVI-I video connector ExpressCard/34 expansion slot Trigger I/O for advanced PXI [™] functions
Watchdog timer	Programmable
Operating system	Windows® 7 x32
Power requirements Maximum	0.12 A @ 5V standby, 0.75 A @ 3.3 V 0.76 A @ 5 V 2.81 A @ 12 V
ТурісаІ	0.11 A @ 5V standby, 0.72 A @ 3.3 V 0.54 A @ 5 V 0.9 A @ 12 V

Physical & Environmental

Size & Weight

Specification	Value
Physical size z3975 Embedded Controller	1 system slot plus two controller expansion slots
Dimensions (L x W x H)	21.32 cm x 6.05 cm x 12.87 cm (8.3 in. x 2.35 in. x 5 in.)
Weight	0.9 kg (1.98 lbs.)

Temperature Range

Specification	Value
Operating	0° C to +50° C ambient
Storage	-20° C to +70° C ambient

Relative Humidity

Specification	Value
Operating	5 to 95%, non-condensing

Shock and Vibration

Specification	Value
Shock	30 G, half sine, 11 ms pulse duration
Vibration	Operating: 5 to 500 Hz, 0.21 Grms, 3 axes Storage: 5 to 500 Hz, 2.46 Grms, 3 axes

Terminology

Numeric Prefixes

When referring to numeric values, this document will use SI (International System of Units) and IEC (International Electrotechnical Commission) standard prefixes. Prefix definitions are in the following table.

Prefix	Multiplier
n (nano)	1/(1000x1000x1000)
μ (micro)	1/(1000x1000)
m (milli)	1/1000
k/K (kilo)	1000
M (Mega)	1000x1000
G (Giga)	1000x1000x1000
Ki (Kibi)	1024
Mi (Mebi)	1024x1024
Gi (Gibi)	1024x1024x1024

Differential Outputs

Single-Ended is used to refer to the output on either the + or – output pin
Differential is used to refer to the output between the + and- output pins
Vd indicates Volts differential
Vppd indicates Volts peak-to-peak differential

Safety

This product is designed to meet the requirements of the following standard of safety for electrical equipment for measurement, control and laboratory use: EN 61010-1

Electromagnetic Compatibility

CE Marking EN 61326-1:1997 FCC Part 15 (Class A) Compliant

CE Compliance

Immunity: EN61326-1

Copyright © 2014 LitePoint, A Teradyne Company.

All rights reserved

RESTRICTED RIGHTS LEGEND

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, mechanical, magnetic, optical, chemical, manual, or otherwise, without the prior written permission of LitePoint Corporation.

DISCLAIMER

LitePoint Corporation makes no representations or warranties with respect to the contents of this manual or of the associated LitePoint Corporation products, and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. LitePoint Corporation shall under no circumstances be liable for incidental or consequential damages or related expenses resulting from the use of this product, even if it has been notified of the possibility of such damages.

If you find errors or problems with this documentation, please notify LitePoint Corporation at the address listed below. LitePoint Corporation does not guarantee that this document is errorfree. LitePoint Corporation reserves the right to make changes in specifications and other information contained in this document without prior notice.

TRADEMARKS

LitePoint and the LitePoint logo are registered trademarks of LitePoint Corporation. z3975 is a trademark of LitePoint Corporation. All other trademarks or registered trademarks are owned by their respective owners.

CONTACT INFORMATION

LitePoint Corporation 965 W. Maude Ave. Sunnyvale, CA 94085-2803 United States of America

Telephone: +1.408.456.5000

LITEPOINT TECHNICAL SUPPORT

www.litepoint.com/support Telephone: +1.408.456.5000 Available: weekdays 8am to 6pm, Pacific Standard Time. E-mail: support@litepoint.com

Doc: 1075-1010-001 March 2014 Rev 1