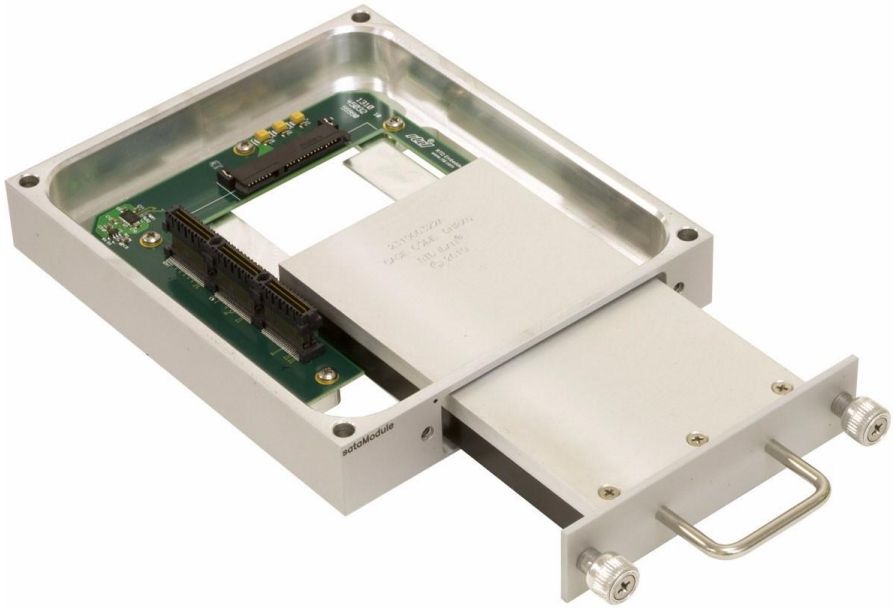
RSATA34106HR

Removable Sata Drive Carrier

Technical Specifications

BDM-610020166 A



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1 Introduction

1.1 Product Overview

The RSATA34106 SATA drive carrier module provide a mechanism to utilize the SATA links on the PCIe/104 Type 2 bus connector on select RTD's PCI Express cpuModules. The onboard drive utilizes the first SATA link on the connector, while the other SATA link is lane-shifted up the stack, this permits stacking of multiple SATA drive carrier modules within one system. The RSATA34106 drive carrier provides power to the SATA drive, sourcing the power from the cpuModule's onboard connector.

This manual provides instructions on how to install a 2.5" SATA drive in a COTS system that RTD has developed and how to install these modules into a PCI/104-Express or PCIe/104 system. This will help you get the SATA drive carrier module up and run quickly and provides detail about the board and its functions to ensure correct utilization of this system.

1.2 Contact Information

1.2.1 Sales Support

For sales inquiries, you can contact RTD Embedded Technologies sales, Inc. via the following methods:

Phone: 1-814-234-8087 Monday through Friday, 8:00am to 5:00pm (EST).
E-Mail: sales@rtd.com

1.2.2 Technical Support

For help with this product, or any other product made by RTD, you can contact RTD Embedded Technologies technical support via the following methods:

Phone: 1-814-234-8087 Monday through Friday, 8:00am to 5:00pm (EST).
E-Mail: techsupport@rtd.com

1.2.3 RMA Support

For repair of this product, or any other product made by RTD, you can contact RTD Embedded Technologies, Inc. RMA department via the following methods:

Phone: 1-814-234-8087 Monday through Friday, 8:00am to 5:00pm (EST).
E-Mail: RMA@rtd.com

1.3 Ordering Information

1.3.1 Stand Alone Modules

The base design variant, intended for use without an RTD system enclosure, may be ordered with the following model number:

- **SATA34106:** 2.5" SATA drive carrier for use with a standalone cpuModule

1.3.2 System Models

The SATA drive carrier can be purchased as an IDAN™, HiDAN™, and HiDANplus™ Module, which consists of the SATA Drive Carrier module, and a frame. These building blocks can be used in just about any combination with other building blocks to create a simple but rugged PCI/104-Express or PCIe/104 stack. (for more information refer to Appendix 1).

Design variants of the SATA drive carrier module installed in an IDAN frame can be ordered with the following model numbers:

Table 1: System Models

Part Number	Description
IDAN-SATA34106HRS	2.5" SATA drive carrier for use in an IDAN system
IDAN-RSATA-SYS104	2.5" SATA drive carrier with removable-drive access for use in an IDAN system
HiDANplus-RSATA-SYS104	2.5" SATA drive carrier with removable-drive access for use in an HiDANplus system

The SATA drive carrier can also be purchased as part of a custom-built RTD HiDAN™ or HiDANplus High Reliability Intelligent Data Acquisition Node. Contact RTD for more information on its high reliability PC/PCI-104, PCI/104-Express, and PCIe/104 systems.

Each System module package contains the following items:

- RSATA34106 SATA Drive Carrier Module
- Machined Frame
- Removable drawer to permit easy removal of data from system
- Companion CD containing documentation

1.3.3 SATA Drive Carrier Accessories

In addition to the items included in your SATA drive carrier module package, several hardware accessories are available, including IDAN frame cable harnesses. Contact RTD or your distributor, or visit the RTD website at www.rtd.com, for more information and for advice on selecting the most appropriate application software and drivers and hardware accessories to support your control system.

Table 2: RSATA Drive Models

Part Number	Description
IDAN-RSATA-DRAWER	IDAN Removable 2.5" SATA drive drawer
HDP-RSD-DRAWER	HiDANplus Removeable 2.5" SATA drive drawer

2 Specifications

2.1 Operating Conditions

Table 3: Physical Attributes

Parameter	Value	Unit
Weight	0.46*	lbs.
Operating Temperature	-40 to +85	°C
Storage Temperature	-40 to +85	°C

*Estimated value

Values are calculated based on no drive being installed.

Please refer to the hardware manuals of each component for accurate consumption scenarios.

2.2 Characteristics

2.2.1 System Physical Characteristics

Table 4: Frame Module Characteristics

Parameter	Characteristics
Material	Aluminum Alloy 6061 -T6
Exterior Finish	*Specified Finish per Application**

2.2.2 Electrical Characteristics

Table 5: Electrical Characteristics

Symbol	Parameter	Test Condition	Min	Typ	Max	Unit
D_{iss5}	5V Power dissipation	*See Note 1*		0.625*		W
F_{5V}	5V switching frequency		0.096	1.20	1.44	MHz
	PCIe/104 Bus					
$I_{cc3.3}$	3.3V Input current from PCIe bus			0		A
I_{cc5}	5V Input current from PCIe bus			4.50		A
I_{cc12}	12V Input current from PCIe bus			4.50		A
	2.5" SATA Drive Connector					
$I_{cc3.3}$	3.3V Input current from CN3			0		A
I_{cc5}	5V Input current from CN3			4.50		A
I_{cc12}	12V Input current from CN3			4.50		A

*Estimated value

Values are calculated based on no drive being installed.[1]

Please refer to the hardware manuals of each component for accurate consumption scenarios.

3 Connecting the SATA Drive

3.1 Board Features

- Adds one 2.5" SATA (Serial ATA) drive to a system using the PCIe/104 Type 2 bus interface on select RTD cpuModules
  - Removable drawer carrier permits easy removal of data from the system
  - Stack up to 2x SATA drive carrier modules in one system
- Useful for RAID configurations
- Physical and environmental characteristics
  - RTD COTS compatible (see Appendix 1, COTS Dimensions and Pinout)
  - Supports 2.5" SATA rotating or flash drives
- Stackable PCIe/104 Type 2 Expansion Bus
  - Permits system expandability by passing unused SATA links, PCI-Express links, and USB ports from the cpuModule to the next expansion module in the system
- Benefits of SATA over PATA (Parallel ATA)
  - Transfer rates up to 3.0 Gbits per second is faster and more efficient than PATA
  - Dedicated SATA links for each drive in the system eliminate master/slave addressing jumpers
  - Backwards compatibility with PATA permits use of Legacy Mode

3.2 Connectors

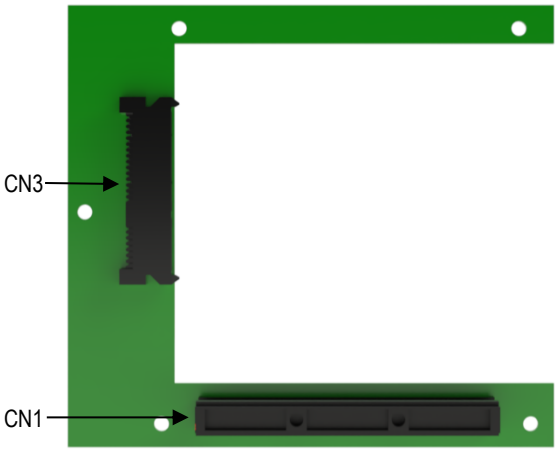

Figure 1: RSATA34106 Top View

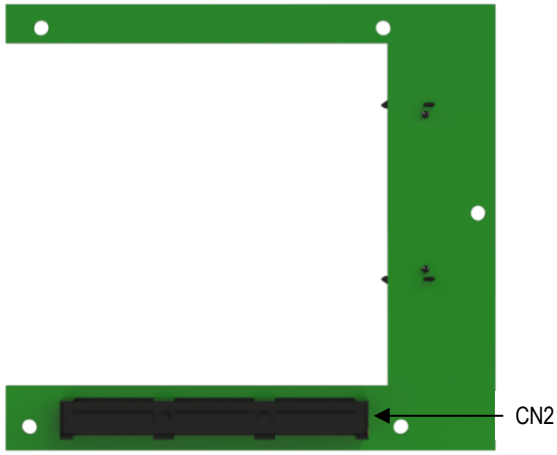

Figure 2: RSATA34106 Bottom View

3.3 Installation Considerations

The RSATA34106 is a module with a PCIe/104 Type 2 bus. Therefore, the RSATA34106 should only be installed on a cpuModule which has a PCIe/104 Type 2 bus connector.

CAUTION The PCIe/104 Type 2 connector is the same physical connector as the PCIe/104 Type 1 connector, but has a different pinout. Though it is physically possible to connect the RSATA34106 directly to a PCIe/104 Type 1 bus, doing so could harm the module and other boards in the system.

3.4 SATA Drive Carrier Installation

1. Turn off power to your PCI/104-Express or PCIe/104 system and unplug the cord.
2. Ground yourself with an anti-static strap.
3. Line up the pins of the RSATA34106's bottom side connector with the PCIe/104 Type 2 bus of the stack and gently press the module onto the stack.

CAUTION The RSATA34106 should slide into the connectors on the matching PCI/104-Express or PCIe/104 system easily. Do not force the connection. Doing so might damage pins on the connectors.

4. If any modules are to be installed on the PCIe/104 Type 2 bus above the RSATA34106, install them.
5. Attach any necessary cables to the stack.
6. Reconnect the power cord and apply power to the stack.
7. Boot the system and verify that all of the hardware is working properly.

3.5 PCIe/104 TYPE 2 Bus (CN1 & CN2)

3.5.1 PCIe/104 Type 2 Compatibility

The PCIe/104 Type 2 bus is compatible with any PCI/104-Express or PCIe/104 peripheral module that does not use the x16 Link. This includes any card that uses the PCIe x1 links, USB, or a power supply.

3.5.2 Pin Connection

The signals on the first bank match definitions found in the PCI/104-Express & PCIe/104 Specification Version 1.1 from the PC/104 Embedded Consortium. The signals on the second and third bank are used for SATA hard drive carrier expansion. Table 2 lists the pinout of the PCIe/104 Type 2 bus connector.

Connector **CN1** on the bottom side of the RSATA34106 is the source for the signals of the cpuModule's PCIe/104 Type 2 bus. The only connections on the top-side PCIe/104 Type 2 bus connector (**CN1**) that are not directly passed through from the bottom-side connector (**CN2**) are the SATA links. Other unused features on the bus that are provided by the cpuModule are passed through the RSATA34106's bus connector to the next peripheral module in the stack.

For details on how the SATA links are utilized and passed through the RSATA34106, refer to SATA Link Shifting — page 17.

Note *Pin 1 of the PCIe/104 Type 2 bus connectors is indicated by a silk screen border at the corner of each connector on the top and bottom of the board.*

Table 6: PCIe/104 Type 2 Bus Signal Assignments

Pin	Signal		Signal	Pin
1	*Pass-through*	+5 VOLTS	*Pass-through*	2
3	+3.3V		+3.3V	4
5	*Pass-through*		*Pass-through*	6
7	*Pass-through*		*Pass-through*	8
9	GND		GND	10
11	*Pass-through*		*Pass-through*	12
13	*Pass-through*		*Pass-through*	14
15	GND		GND	16
17	*Pass-through*		*Pass-through*	18
19	*Pass-through*		*Pass-through*	20
21	GND		GND	22
23	*Pass-through*		*Pass-through*	24
25	*Pass-through*		*Pass-through*	26
27	GND		GND	28
29	*Pass-through*		*Pass-through*	30
31	*Pass-through*		*Pass-through*	32
33	GND		GND	34
35	*Pass-through*		*Pass-through*	36
37	*Pass-through*		*Pass-through*	38
39	*Pass-through*		*Pass-through*	40
41	*Pass-through*		*Pass-through*	42
43	*Pass-through*		*Pass-through*	44
45	CPU_DIR		*Pass-through*	46
47	*Pass-through*		*Pass-through*	48
49	*Pass-through*		*Pass-through*	50
51	*Pass-through*		*Pass-through*	52

Table 7: PCIe/104 Type 2 Bus Signal Assignments Cont.

Pin	Signal		Signal	Pin
53	Reserved	+5 VOLTS	*Pass-through*	54
55	GND		GND	56
57	*Pass-through*		*Pass-through*	58
59	*Pass-through*		*Pass-through*	60
61	GND		GND	62
63	*Pass-through*		*Pass-through*	64
65	*Pass-through*		*Pass-through*	66
67	GND		GND	68
69	*Pass-through*		*Pass-through*	70
71	*Pass-through*		*Pass-through*	72
73	GND		GND	74
75	*Pass-through*		*Pass-through*	76
77	*Pass-through*		*Pass-through*	78
79	GND		GND	80
81	SATA_1Tp[2]		SATA_0Tp[2]	82
83	SATA_1Tn[2]		SATA_0Tn[2]	84
85	GND		GND	86
87	*Pass-through*		*Pass-through*	88
89	*Pass-through*		*Pass-through*	90
91	GND		GND	92
93	*Pass-through*		*Pass-through*	94
95	*Pass-through*		*Pass-through*	96
97	GND		GND	98
99	*SATA_DET#1*[2]		*SATA_DET#0*[2]	100
101	*SATA_PWREN#1*[2]		*SATA_PWREN#0*[2]	102
103	GND		GND	104

Table 8: PCIe/104 Type 2 Bus Signal Assignments Cont.

Pin	Signal		Signal	Pin
105	*Pass-through*	+5 Volts	*Pass-through*	106
107	GND		GND	108
109	*Pass-through*		*Pass-through*	110
111	*Pass-through*		*Pass-through*	112
113	GND		GND	114
115	*Pass-through*		*Pass-through*	116
117	*Pass-through*		*Pass-through*	118
119	GND		GND	120
121	*Pass-through*		*Pass-through*	122
123	*Pass-through*		*Pass-through*	124
125	GND		GND	126
127	*Pass-through*		*Pass-through*	128
129	*Pass-through*		*Pass-through*	130
131	GND		GND	132
133	SATA_1Rp[2]		SATA_0Rp[2]	134
135	SATA_1Rn[2]		SATA_0Rn[2]	136
137	GND		GND	138
139	*Pass-through*		*Pass-through*	140
141	*Pass-through*		*Pass-through*	142
143	GND		GND	144
145	*Pass-through*		*Pass-through*	146
147	*Pass-through*		*Pass-through*	148
149	GND		GND	150
151	*Pass-through*		*Pass-through*	152
153	*Pass-through*		*Pass-through*	154
155	GND		GND	156

1. Signals marked with (#) are active low.
2. For a description of SATA lane usage on the RSATA34106, refer to SATA Link Shifting — page 17.

3.6 2.5” SATA Drive Connector (CN3)

The 2.5” SATA drive connector on the RSATA34106 provides a convenient interface to the first SATA link on the PCIe/104 Type 2 bus on RTD’s PCI Express cpuModules.

4 Board Connection

4.1 Module Handling Precautions

To prevent damage due to Electrostatic Discharge (ESD), keep your board in its antistatic bag until you are ready to install it into your system. When removing it from the bag, hold the board at the edges, and do not touch the components or connectors. Handle the board in an antistatic environment and use a grounded workbench for testing and handling your hardware.

4.2 Board Characteristics

STEP model is available upon request; contact RTD Tech Support for more information.

- Weight: Approximately 0.44 lbs (0.20 kg)
- Dimensions: 4.150 in x 3.775 in (105.41 mm x 95.89 mm)

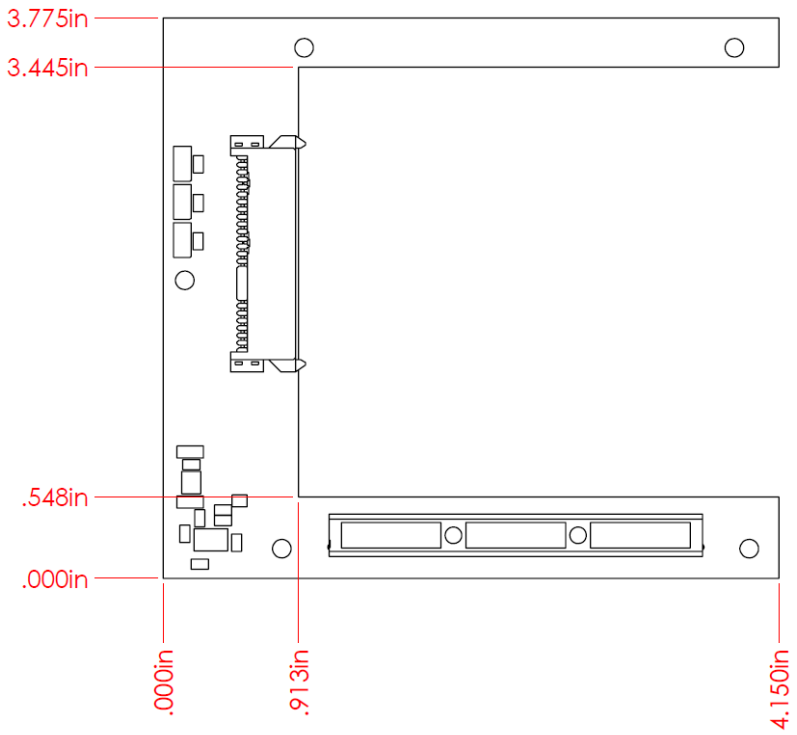

Figure 3: Board Dimensions

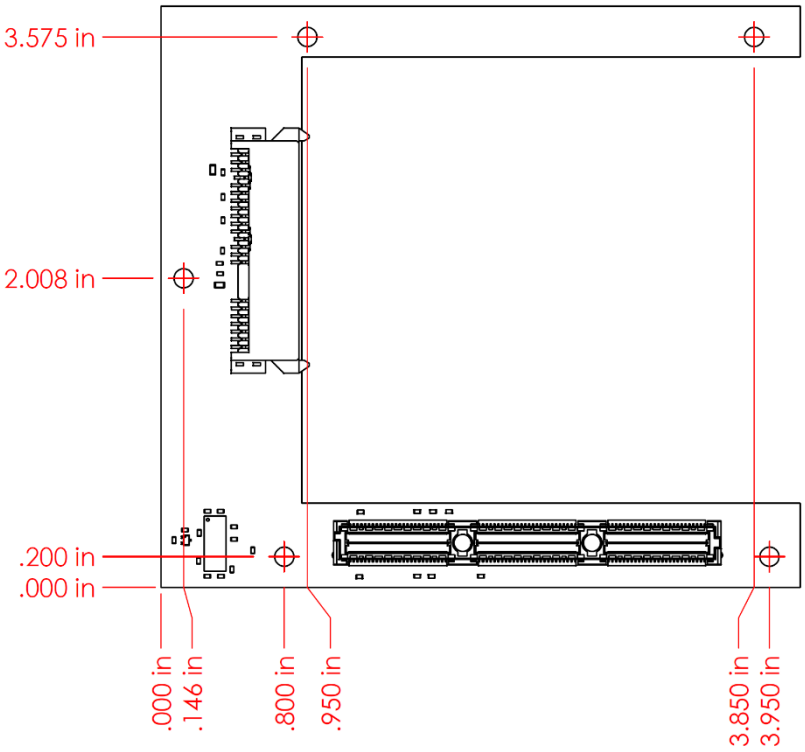

Figure 4: Hole Locations

4.3 Steps for Installing and EMI Concerns

1. Always work at an ESD protected workstation and wear a grounded wrist-strap.
2. Wires going to the power should be 20 AWG or larger.
3. Wires should be tightly twisted to reduce input inductance and reduce EMI concerns.
4. Do not route input and output wires together, as this will cause EMI coupling.
5. Keep input and output wiring as short as possible to reduce the chances of coupling.
6. Segregate power wiring from all other wiring or shield it to reduce EMI concerns.
7. Turn off power to the PC/104 system or stack.
8. Remove the module from its anti-static bag.
9. Select and install stand-offs to properly position the module on the stack.
10. Check that pins of the bus connector are properly positioned.
11. Check the stacking order; make sure all the buses used by the peripheral cards are connected to the cpuModule.
12. Hold the module by its edges and orient it so the bus connector pins line up with the matching connector on the stack.
13. Gently and evenly press the module onto the PC/104 stack.
14. If any boards are to be stacked above this module, install them.
15. Attach any necessary cables to the PC/104 stack.
16. Boot the system and verify that all the hardware is working properly.

Figure 5: Example 104™ Stack

5 Functional Description

5.1 SATA Link Shifting

The RSATA34106's 2.5" SATA Drive Connector (**CN3**) utilizes the first SATA link on the PCIe/104 Type 2 bus. As a result, the unused SATA link on the bus is shifted from the bottom-side PCIe/104 Type 2 connector (**CN2**) to the top-side (**CN1**).
Shifting the remaining link allows a second RSATA34106 (or other SATA drive carrier) to be installed upwards in the stack. Figure 1 shows a block diagram of the SATA drive carrier module and how it interfaces to the cpuModule.

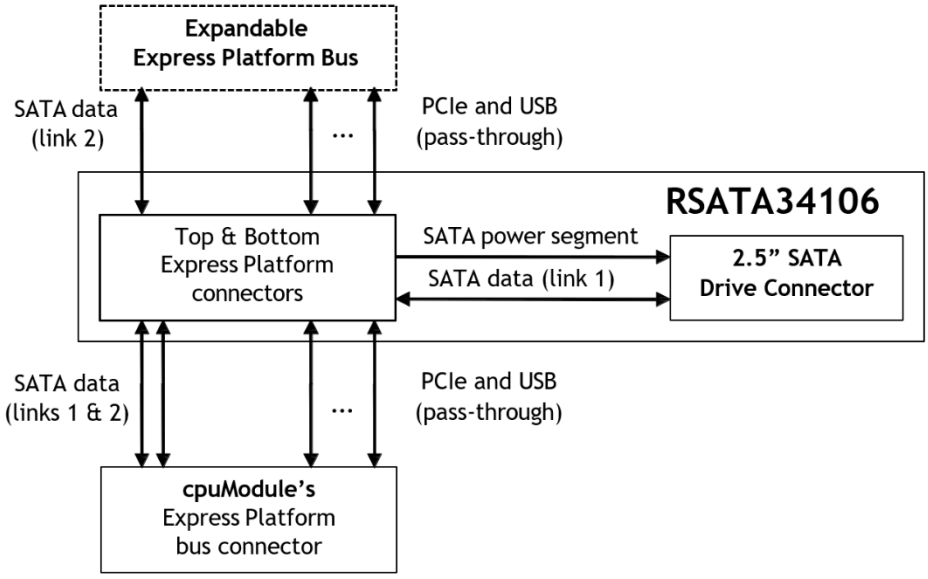

Figure 6: RSATA34106 - Block Diagram

6 Troubleshooting

If you are having problems with your system, please try the following initial steps:

- **Simplify the System** – Remove modules one at a time from your system to see if there is a specific module that is causing a problem. Perform you troubleshooting with the least number of modules in the system possible.

- **Swap Components** – Try replacing parts in the system one at a time with similar parts to determine if a part is faulty or if a type of part is configured incorrectly.

If problems persist, or you have questions about configuring this product, refer to Section 1.4: Contact Information for further aid from RTD Embedded Technologies, Inc.

7 Additional Information

7.1 RMS Consortium Specifications

A copy of the latest PC/104 specifications can be found on the webpage for the PC/104 Embedded Consortium:

https://www.rmsconsortium.org

7.2 PCI and PCI Express Specification

A copy of the latest PCI and PCI Express specifications can be found on the webpage for the PCI Special Interest Group:

www.pcisig.com

Appendix 1 COTS Dimensions and Pinouts

SATA Drive Carrier modules, like all other RTD PC/PCI-104, PCI/104-Express, and PCIe/104 modules, can be packaged into RTD's available ruggedized embedded systems, which are milled aluminum frames with integrated heat sinks and heat pipes for fanless operation. RTD modules installed in these frames are called building blocks. IDAN, HiDAN, and HiDANplus building blocks maintain the simple but rugged PC/104 stacking concept. Each RTD module is mounted in its own frame, and all I/O connections are brought to the walls of each frame using standard PC connectors. No connections are made from module to module internal to the system other than through the PC/104 and PC/104-Plus bus, enabling quick interchangeability and system expansion without hours of rewiring and board redesign.

The RSATA34106 SATA Drive Carrier can also be purchased as part of a custom-built RTD HiDAN™ or HiDANplus™ High Reliability Intelligent Data Acquisition Node. This appendix provides the dimensions and pinouts of the RSATA34106 installed in an IDAN and HiDANplus frame. Contact RTD for more information on high reliability IDAN, HiDAN, HiDANplus PC/PCI-104, PCI/104-Express, and PCIe/104 systems.

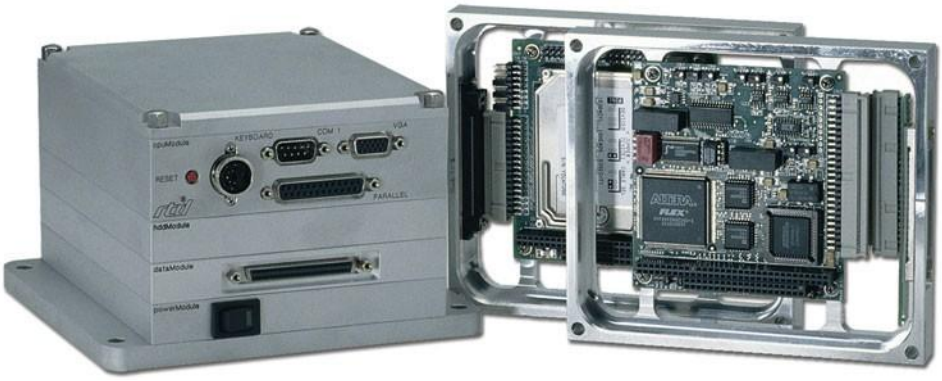

Figure 7: IDAN: adhering to the PC/104 stacking concept, IDAN allows you to build a customized system with any combination of RTD modules.

Figure 8: HiDANplus - Integrating the modularity of IDAN with the ruggedization of HiDAN, HiDANplus enables connectors on all system frames, with signals running between frames through a dedicated stack through raceway.

Figure 9: IDAN Heat Pipes - Advanced heat pipe technology maximizes heat transfer to heat sink fins.

8.1 IDAN Configuration

8.1.1 IDAN-RSATA-SYS104

The IDAN-RSATA-SYS104 is a RSATA34106 SATA Drive Carrier packaged in an IDAN frame. It includes a removable drawer which acts as a carrier for a 2.5" SATA drive and permits easy removal of data from a PCI/104-Express or PCIe/104 system.

Figure 10: IDAN-RSATA-SYS104, Drawer Opened

Figure 11: IDAN-RSATA-SYS104, Drawer Closed

8.1.2 REMOVEABLE DRAWER

The removable drawer carrier allows a 2.5" SATA drive to be easily added or removed from the IDAN-RSATA-SYS104. To install or remove a 2.5" SATA drive from the drawer, ten screws must be removed from the carrier, as shown in Figure 6, below.

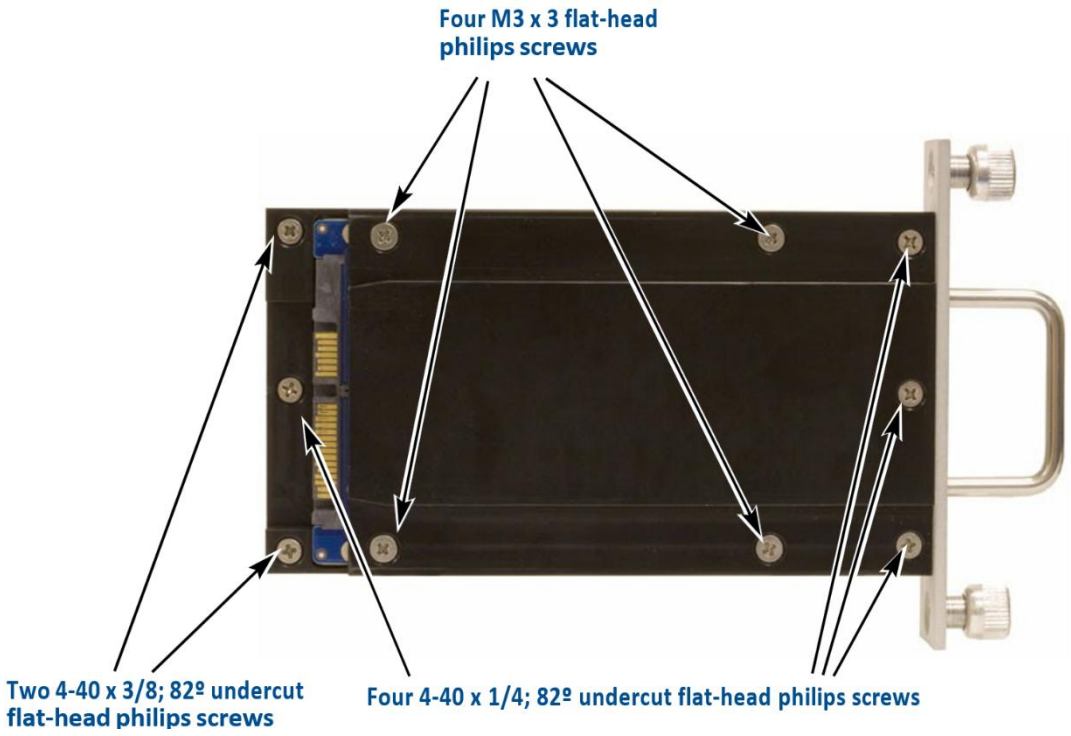

Figure 12: IDAN-RSATA-SYS104 Drawer (Carrier)

8.1.3 DIMENSIONAL DRAWING

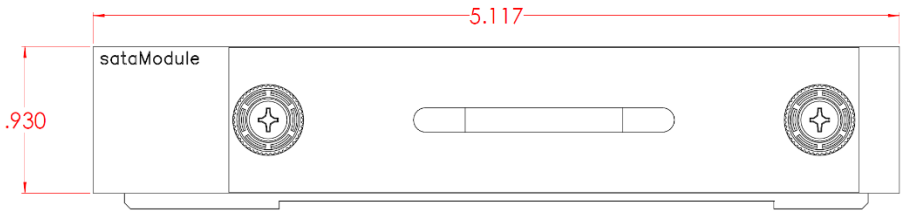

Figure 13: IDAN-RSATA-SYS104 Dimensions

Note: All dimensions are in inches

8.2 HiDANplus Configuration

8.2.1 HIDANPLUS-RSATA-SYS104

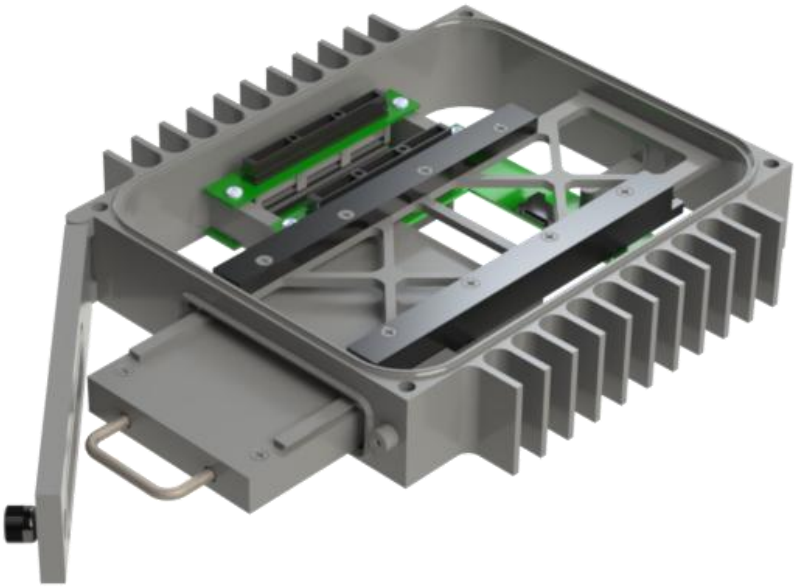

Figure 14: HiDANplus-RSATA-SYS104 Drawer Opened

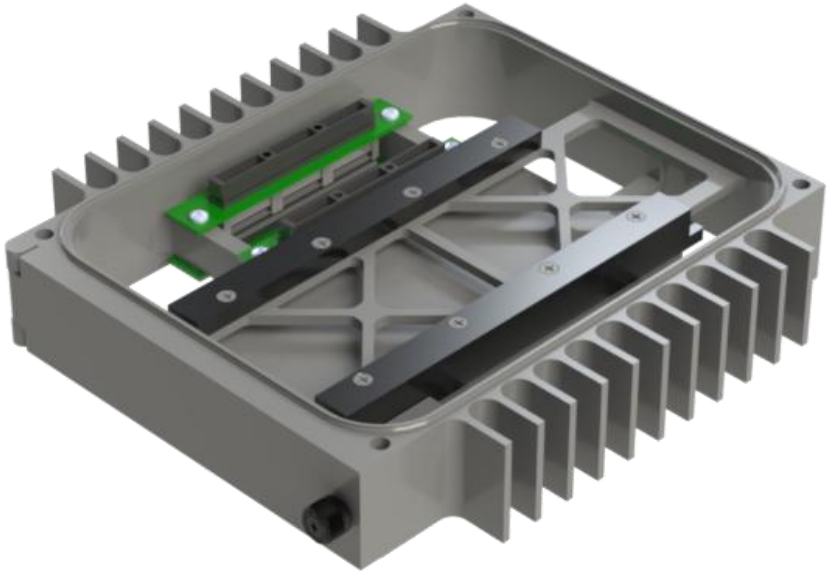

Figure 15: HiDANplus-RSATA-SYS104 Drawer Closed

8.2.2 REMOVABLE DRAWER

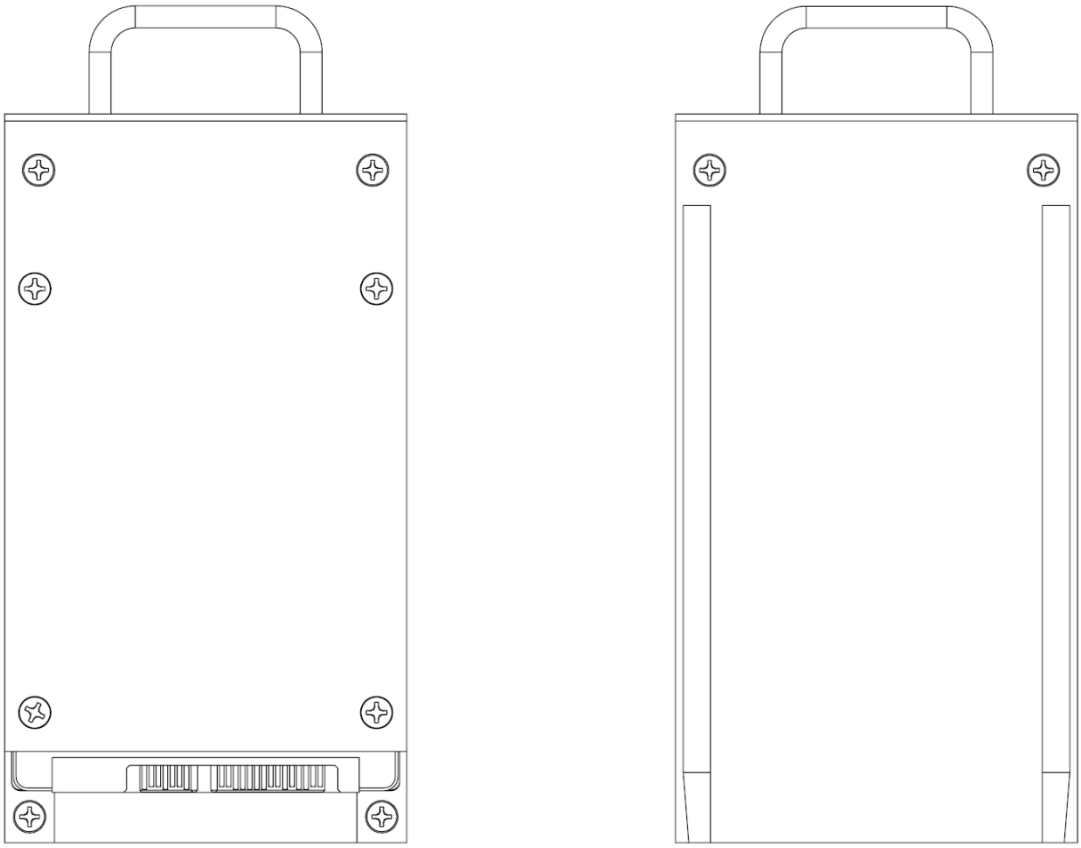

Figure 16: Front and Back of HiDANplus-RSATA-SYS104 Drawer (Carrier)

8.2.3 DIMENSIONAL DRAWING

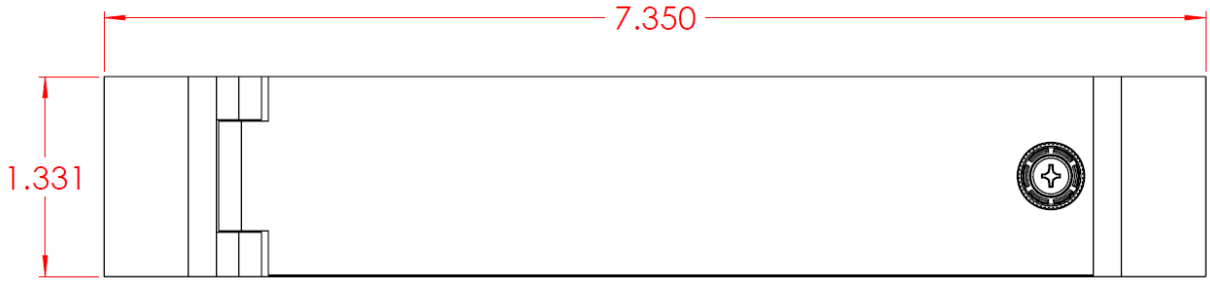

Figure 17: HiDANplus-RSATA-SYS104 Dimensions

Note: All dimensions are in inches

8 Limited Warranty

RTD Embedded Technologies, Inc. warrants the hardware and software products it manufactures and produces to be free from defects in materials and workmanship for one year following the date of shipment from RTD Embedded Technologies, Inc. This warranty is limited to the original purchaser of product and is not transferable.

During the one year warranty period, RTD Embedded Technologies will repair or replace, at its option, any defective products or parts at no additional charge, provided that the product is returned, shipping prepaid, to RTD Embedded Technologies. All replaced parts and products become the property of RTD Embedded Technologies. Before returning any product for repair, customers are required to contact the factory for a Return Material Authorization (RMA) number.

This limited warranty does not extend to any products which have been damaged as a result of accident, misuse, abuse (such as: use of incorrect input voltages, improper or insufficient ventilation, failure to follow the operating instructions that are provided by RTD Embedded Technologies, “acts of God” or other contingencies beyond the control of RTD Embedded Technologies), or as a result of service or modification by anyone other than RTD Embedded Technologies. Except as expressly set forth above, no other warranties are expressed or implied, including, but not limited to, any implied warranties of merchantability and fitness for a particular purpose, and RTD Embedded Technologies expressly disclaims all warranties not stated herein. All implied warranties, including implied warranties for merchantability and fitness for a particular purpose, are limited to the duration of this warranty. In the event the product is not free from defects as warranted above, the purchaser's sole remedy shall be repair or replacement as provided above. Under no circumstances will RTD Embedded Technologies be liable to the purchaser or any user for any damages, including any incidental or consequential damages, expenses, lost profits, lost savings, or other damages arising out of the use or inability to use the product.

Some states do not allow the exclusion or limitation of incidental or consequential damages for consumer products, and some states do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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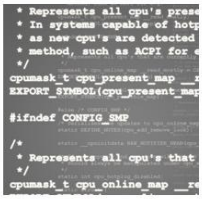

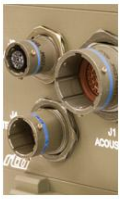
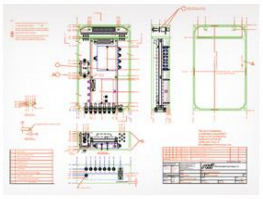

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