



IBP-G3x16-2



IBP-G3x16-2 Backplane Users Guide
Version 1.4

Date: 17th June 2019

Table of Contents

DISCLAIMER	4
SPECIFICATIONS	5
ATX / MICROATX CABINET MOUNTING.....	5
OPERATING ENVIRONMENT.....	5
INSTALLATION	6
STEP 1 - UNPACK BOARD	6
STEP 2 – INSTALL THE IBP-G3X16-2 IN AN CABINET	6
STEP 3 – CONNECT THE POWER SUPPLY	6
STEP 4 – INSTALL THE DOLPHIN PCIe UPLINK CARD.....	6
STEP 5 – CONNECT A POWER TOGGLE SWITCH OR JUMPER	6
SUPPORT	6
COMPLIANCE AND REGULATORY TESTING	7
LIMITED WARRANTY	8
WARRANTY PERIOD.....	8
COVERAGE.....	8
SERVICE PROCEDURE	8

DISCLAIMER

DOLPHIN INTERCONNECT SOLUTIONS RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY OF ITS PRODUCTS TO IMPROVE RELIABILITY, FUNCTION, OR DESIGN.

TO THE FULLEST EXTENT PERMITTED BY LAW, DOLPHIN WILL NOT BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS, LOST DATA, OR LOSS OF USE) ARISING OUT OF ANY USE OF DOLPHIN'S PRODUCTS, SOFTWARE OR SERVICE PROVIDED. DOLPHIN'S MAXIMUM LIABILITY WILL NOT EXCEED THE TOTAL AMOUNT PAID FOR THE PRODUCT BY THE PURCHASER.

LIFE SUPPORT POLICY

DOLPHIN INTERCONNECT SOLUTIONS' PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES.

ENVIRONMENTAL POLICY

Dolphin is minimizing the amount of printed documentation and software CDs in its shipments; please download additional documentation and software from www.dolphinics.com.

Specifications

The IBP-G3X16-2 is a passive backplane supporting PCIe Gen1, Gen2 and Gen3 speeds and x1, x2, x4, x8 and x16 link-widths. Both slots can be used for the Dolphin PCIe uplink card.

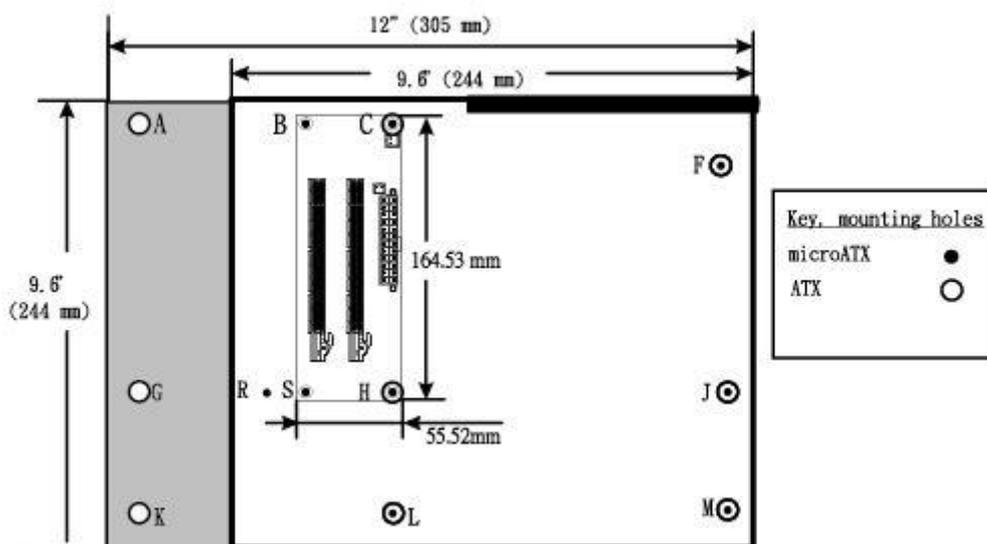
- One PCIe x16 target slot for a Dolphin PCIe uplink card
- One PCIe x16 expansion slot for a PCIe Add-on Card
- Support PCIe x1/ PCIe x4/ PCIe x8/ PCIe x16 PCIe 1.0 / PCIe 2.0 / PCIe 3.0
- 55.52(W) mm x 164.53(L) mm
- Compliant to ATX / MicroATX cabinets.
- Dimensions

The card has the following pin headers:

- ATX 24 Pin Power Connector
- Power Switch Pin Header
 - 2pin Header (pitch=2.54mm)
- FAN Power Connector (12V Output)
 - 2pin (pitch=2.0mm) connector
- Power LED Pin Header
 - 3pin Header (pitch=2.54mm)

ATX / microATX Cabinet mounting

The IBP-G3X16-2 is compliant to both microATX and ATC cabinets. Please refer to the figure below for dimensions and mounting holes.



Operating Environment

To maximize lifetime for the products and maintain the warranty, please honor the specified operating temperature for the PCIe uplink card and the installed PCIe device and make sure the proper air flow is present. Special care should be considered when IBP-G3X16-2 is used in office type cabinets in combination with other high energy consuming PCIe devices, e.g. not active cooled GPUs. Please consult the PCIe uplink card users guide and the installed PCIe devices users guide for details.

Installation

Step 1 - Unpack board

The IBP-G3X16-2 is shipped in an anti-static bag to prevent static electricity damage. The card should only be removed from the bag after ensuring that anti-static precautions are taken. Static electricity from your clothes or work environment can damage your PCI Express adapter card or your PC. Always wear a grounded anti-static wrist strap while opening the expansion chassis and when the IBP-G3X16-2 is removed from the anti-static bag.



Unpack the IBP-G3X16-2 from the anti-static bag using proper anti-static procedures.

Step 2 – Install the IBP-G3X16-2 in an cabinet

The backplane can be installed in a ATX or MicroATX compliant Chassis with proper airflow to meet the requirements of both the Dolphin uplink card and the installed IO card.

Step 3 – Connect the Power Supply

The backplane must be powered from an ATX 24-Pin Power Supply. The power supply must provide enough power for both the Dolphin uplink card and the PCIe adapter card installed.

Step 4 – Install the Dolphin PCIe uplink card

Configure and Install the Dolphin PCIe uplink card in one of the slots. Please refer to the Users Guide for the selected PCIe card. The guides can be found at <https://www.dolphinics.com/support/index.html>

Step 5 – Connect a power toggle switch or jumper

Connect a power toggle switch or a jumper to the 'PWR ON' pin headers. This connects to the ATX power-supply Power-good pins and signals the PSU unit to start and provide power. With a toggle switch, the ATX PSU can be left switched on, and power to the device can be controlled with this switch, while with a jumper, the expansion system can be turned on or off with the ATX PSU power switch.

Support

More information about the product, support and software download at <http://www.dolphinics.com> Please email pci-support@dolphinics.com if you have any questions.

Compliance and Regulatory Testing

EMC Compliance

The IBP-G3X16-2 passive component not tested for EMC compliance. It is the customer responsibility to install the backplane in a proper cabinet and install the PCIe adapter cards of choice before conducting their own EMC test.

This does not ensure that it will comply with the relevant standards in any random cabinet. It is the responsibility of the integrator to ensure that their products are compliant with all regulations where their product will be used.

RoHS Compliance

The Dolphin IBP-G3X16-2 is RoHS compliant. A Compliance certificate issued by the manufacturer is available upon request.



Limited Warranty

Dolphin Interconnect Solutions warrants this product to be free from manufacturing defects under the following terms:

Warranty Period

Dolphin warrants the product for one (1) year from the date of purchase. Extended warranties are available.

Coverage

To the extent permitted by applicable law, this warranty does not apply to:

- Damages caused by operator error or non-compliance with instructions available for the product.
- Use or attempt to use or program firmware not approved by Dolphin.
- Damage which results from accident, abuse, misuse, neglected improper handling or improper installation; moisture, corrosive environments, high voltage surges, shipping or abnormal working conditions.
- Damages which results from violating the specified operating or storage temperatures and airflow.
- Damages caused by acts of nature, e.g. floods, storms, fire, or earthquakes.
- Damage caused by any power source out of range or not provided with the product.
- Normal wear and tear.
- Attempts to repair, modify, open or upgrade the product by personnel or agents not authorized by Dolphin.
- Products that have had the product serial number tampered with or removed.
- Damage to the product caused by products not supplied by Dolphin.

Service Procedure

If the product proves defective during the Warranty Period, you should contact the seller that supplied you with the product, or if you purchased it directly from Dolphin, email returnrequests@dolphinics.com to obtain a valid RMA number and instructions.

Products returned to Dolphin without a proper RMA number will not be serviced under this warranty.