

# Penguin Edge™ PCIE-8130-FL Quick Start Guide

P/N: 6806877A04C JUNE 2022

## 1 Box contents

Make sure you receive all items of your shipment:

- One Penguin Edge™ PCIE-8130-FL card
- One printed copy of *Quick Start Guide* (this document)
- One printed copy of *Safety Notes Summary*

**Note:** You may need to purchase a power input cable (capable of providing 12V of power) to connect the card in the system if the power input cable is not provided by the server manufacturer (see steps 5 and 6).



When installing or servicing the system or accessories, strictly observe the safety precautions in the *Safety Notes Summary*. Ignoring these instructions can void the system warranty and cause personal injury or property damage.

## 2 ESD

Use ESD protection



Electrostatic discharge and incorrect installation or removal of the card can damage circuit or shorten its life.

Use a properly grounded ESD wrist strap or work in an ESD-safe environment.

Connect to the ESD connector at the front or the rear of the system.

## 3 Site preparation

**Note:** Consult the installation manual provided by your server vendor for instruction on how to install the card in a specific server.

1. Make sure that all environmental and power requirements defined in the *Penguin Edge™ PCIE-8130 Installation and Use* manual are met.
2. The PCIE-8130 card requires a PCIe x4 connector size. It can also be installed in a x8 or x16 slot.
3. The PCIE-8130 can be installed in a system board PCIe slot or on a PCIe riser card.
4. Make sure the server can accommodate and power the full-height, full-length PCIE-8130 card and that it provides snap-in fixation or screw holes.
5. Verify that the I/O slot can supply power via the 12V supply rail and a 2 x 3 auxiliary power connector in accordance with the PCI Express Card Electromechanical Specification definition for a 150W slot.

## 4 Install PCIe cards

**Note:** Consult the installation manual provided by your server vendor for instructions on how to power down and remove the housing cover from the system.

1. Shut down and disconnect the system from AC power.
2. Remove the housing cover from the server.
3. Remove the filler cards or filler panels in the PCIe slots, if any.
4. Install the PCIE-8130 card(s) in the respective slot(s) by gently pushing the card along the guide rails till the card is fully engaged with the connector. Avoid excessive force during this operation.

**Note:** If a retainer clip is used in the target server to secure the card, the clip must be applied for proper operation of the card.

5. Fill any empty PCIe slots with filler cards or filler panels. A slot adjacent to the component side (primary side) of a high power card should always contain a filler card for better cooling.

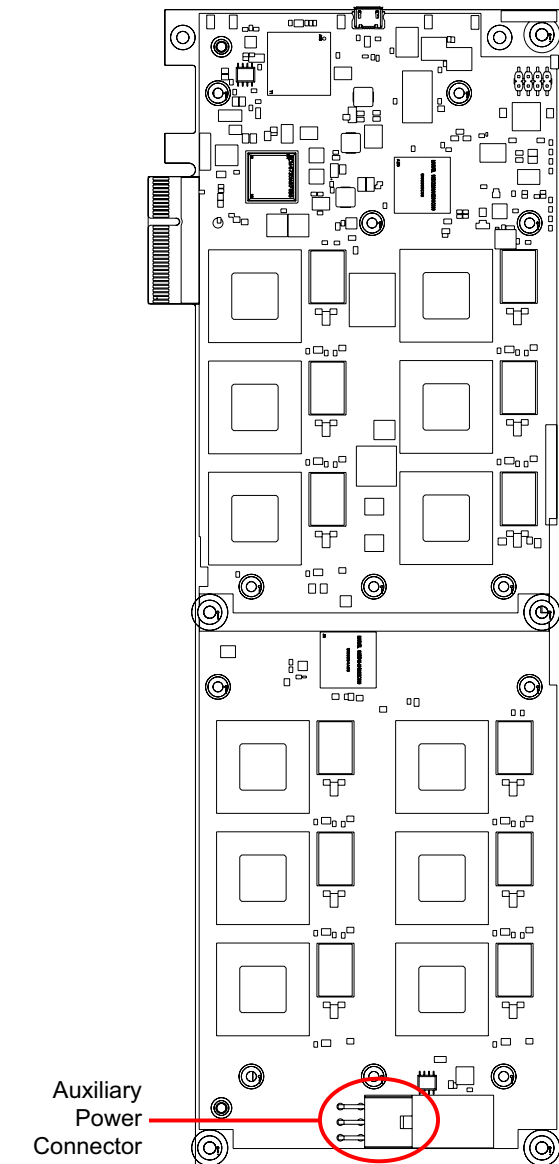
For more information about PCIE-8130 card installation, refer to the *Penguin Edge PCIE-8130 Installation and Use* manual.

## 5 Connect external power connector

**Note:** The external power connector should be connected using server manufacturer supplied cables or 3rd party cables capable of carrying 12V of power.

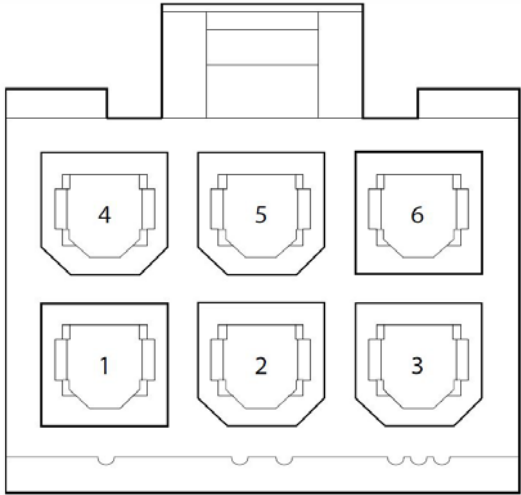
Connect the power input cable from the server to the PCI Express 6-pin (2x3 auxiliary) connector on the card.

For more information about connecting cables and power cords, refer to the *Penguin Edge PCIE-8130 Installation and Use* manual.



# 6 ATX 6-pin external power connector pinout

Refer to the following diagram and table for the pinout of the external power connector on the PCIE-8130 card.



Pin	Signal
1	+12V
2	+12V
3	+12V
4	Ground
5	Sense
6	Ground



## Technical Assistance

For technical assistance or to report product damage or shortages, contact your local Penguin Solutions™ sales representative or visit <https://www.penguinsolutions.com/edge/support/>.

## Get More Information



For more information on this product, refer to the *Penguin Edge™ PCIE-8130 Installation and Use* manual and other related technical documentation, which can be found by using the Documentation Search at <https://www.penguinsolutions.com/edge/support/>.



Penguin Solutions is a trade name used by SMART Embedded Computing, Inc., a wholly owned subsidiary of SMART Global Holdings, Inc. Penguin Edge is a trademark owned by Penguin Computing, Inc., a wholly owned subsidiary of SMART Global Holdings, Inc. All other logos, trade names, and trademarks are the property of their respective owners. These materials are provided as a service to our customers and may be used for informational purposes only. For full legal terms and conditions, please visit [www.penguinsolutions.com/edge/legal/](https://www.penguinsolutions.com/edge/legal/). ©2022 SMART Embedded Computing, Inc.