

COMX-P4080 Express Module Quick Start Guide

P/N: 6806800L26C December 2019

1 Box contents

Make sure you receive all items of your shipment:

- One COMX-P4080 Express Module
- One printed copy of Quick Start Guide (this document)
- One printed copy of Safety Notes Summary



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

1. Make sure that all environmental and power requirements defined in the *COMX-P4080 Installation and Use* manual are met.
2. The COMX-P4080 module must be in good condition, without defects such as oxidation, chemical corrosion, missing components, or transportation damage.
3. Confirm the position where the COMX-P4080 module will be installed.

For more information about connecting cables and power cords, refer to the *COMX-P4080 Installation and Use* manual.

4 Install the memory module

1. Wear an ESD-preventive wrist strap.
2. Put the COMX-P4080 module on an ESD workbench.
3. Check the thermal pad found in a separate package of the heat spreader/cooler pack. Tear off the pad protection paper from one side and adhere it on the center of the PCB module, between the bottom memory socket and the processor.
4. Line up the notch located on the row of the metal pins at the bottom of the module with the key in the SODIMM slot on the COM-E module.
5. Insert the SODIMM in a slant-wise position or at a 45-degree angle to slide the memory module into place.
6. Press down on the memory module against the COM-E module until you hear it snap into place. The module must be properly aligned before you press it down into its final position.

Note: You can remove the module from the socket and reinstall it if you cannot easily press it into its final position.



Do not touch the memory chips when handling the module.

Do not press on the memory chips when you push it into its final position.

Do not touch the metal pins.

5 Install the heat spreader/heat sink

1. Check the thermal interface material pads on the heat spreader/heat sink. Make sure the pads are aligned to their corresponding components on the COMX-P4080.
2. Align the standoffs of the heat spreader/heat sink with the screw holes on the COMX-P4080.
3. Hold the heat spreader/heat sink, COMX-P4080 module and carrier board together.
4. Attach the heat spreader/cooler, COMX-P4080 module and carrier board together by using the standoffs (male/female type).

Note: 0.45 Nm of torque is recommended.

6 Install COMX-P4080 on carrier board

1. Line up the board-to-board connector of the COMX-P4080 module with the board-to-board connector of the carrier board.
2. Make sure that the interconnectors are properly aligned, and that the four standoffs have contact with the top of the carrier board.
3. From the top-side of the module assembly, locate the screw holes on the heat spreader/heat sink.
4. Use the corresponding screws to fasten the COMX-P4080 module assembly to the carrier board.



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Technical Assistance

For technical assistance or to report product damage or shortages, contact your local SMART Embedded Computing sales representative or visit <https://www.smartembedded.com/ec/support/>

Get More Information



For more information on this product, see the *COMX-P4080 Installation and Use* manual and other related technical documentation, which can be found by using the Documentation Search at <https://www.smartembedded.com/ec/support/>.

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