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SMART PCM11-i5 OPS PC modules with Windows 10 Pro User Guide

SMART.

PCM11-i5 OPS PC modules with Windows 10 Pro
User Guide

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Learn more
This guide and other resources for SMART OPS PC modules are available in the Support section of the SMART website (**smarttech.com/support**). Scan this QR code to view these resources on your mobile device.

Licenses
The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered

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The Bluetooth word mark is owned by the Bluetooth SIG, Inc. and any use of such marks by SMART Technologies ULC is under license.

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Copyright notice

This product and/or use thereof is covered by one or more of the following U.S. patents:

www.smarttech.com/patents

November 1, 2021

Contents

Important information

Federal Communication Commission interference statement

FCC

Suppliers Declaration of Conformity

Unique Identifier: PCM8-1, PCM8-2, PCM11-1, PCM11-2

Responsible Party – US Contact Information

SMART Technologies Inc.

2401 4th Ave., 3rd Floor

Seattle, WA 98121

compliance@smarttech.com

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference

when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense

CAUTION

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Restriction

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.
IEEE 802.11b or 802.11g operation of this product in the USA is firmware limited to channels 1 through 13.

EU Declaration of Conformity

Hereby SMART Technologies ULC declares that the OPS PCM8 and PCM11 are in compliance with Directive 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address: smarttech.com/compliance.

WARNING

The operation of this equipment in a residential environment this equipment may cause radio interference.

The frequency band and the maximum transmitted power in the EU are listed below:

Transmitting Band (MHz)	Maximum Transmit Power (conducted dBm)
2402-2483.5	21
5150-5350	21
5470-5725	21
5475-5875	21

Restrictions in:
AT/BE/BG/CZ/DK/EE/FR/DE/IS/IE/IT/EL/ES/CY/LV/LI/LT/LU/HU/M
TNL/NO/PL/PT/RO/SI/SK/TR/FI/SE/CH/UK/HR – 5150MHz5350MHZ is for indoor use only.

Microsoft® statement regarding Windows® 10 operating system
Windows 10 is automatically updated, which is always enabled.
ISP fees may apply. Additional requirements may apply over time for updates.

Innovation, Science, and Economic Development Canada statement
This device complies with RSS-247 of the Innovation, Science, and Economic Development Canada Rules.
Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

⚠ CAUTION

(i) the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems; (ii) the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall comply with the e.i.r.p. limit; and

(iii) the maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comply with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate. (iv) Users should also be advised that high-power radars are allocated as primary users (i.e., priority users) of the bands

5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Radiation exposure statement

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the antenna of this device and all nearby persons. This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

The United Arab Emirates –
Telecommunications and Digital Government Regulatory Authority (TDRA)

TRA
REGISTERED No: ER69829/19
DEALER No: DA0076339/11

Equipment Name: Intel® Wi-Fi 6 AX200
Model: AX200NGW

TRA
REGISTERED No: ER69428/19
DEALER No: DA0076339/11

Equipment Name: Intel Wi-Fi 6 AX201
Model: AX201NGW

Chapter 1
Welcome

SMART Open Pluggable Specification (OPS) PC
modules provide a hassle-free Windows 10 Pro solution 1based on Intel Core™ processors and are designed specifically to work with SMART Board® interactive displays. All OPS PC modules are Windows Hardware Quality Labs (WHQL) certified and fully licensed with Windows 10 Pro out of the box. Install the OPS PC module in a SMART Board interactive display's OPS slot to provide a complete 4K UHD Windows 10 installation at your fingertips, without the need for an external device or additional cables.

Install familiar Windows software applications, such as SMART Notebook® collaborative learning software, SMART TeamWorks™ visual collaboration software, and SMART Meeting Pro® software, and access the internet directly through your existing interactive display's network connection. Upgrades and services for the OPS PC module are easy to perform without removing the interactive display from its mounting.

NOTE
OPS PC modules are available with customizable memory (RAM) and storage (SSD) on extended lead times with minimum order quantity. Please contact your local sales representative for details.

Chapter 2
Installing and using the SMART OPS PC module

You or your organization's installers can install the SMART OPS PC module in a supported SMART Board interactive display's accessory slot following the OPS PC module's installation instructions:

Series	Installation instructions
PCM11	smarttech.com/kb/171775
PCM8	smarttech.com/kb/171544

TIP
You can install the SMART software that is included with the display on the OPS PC module. For more information about installing software, see the software's installation documentation.

Viewing the OPS PC module input source

Open the display's input source menu:

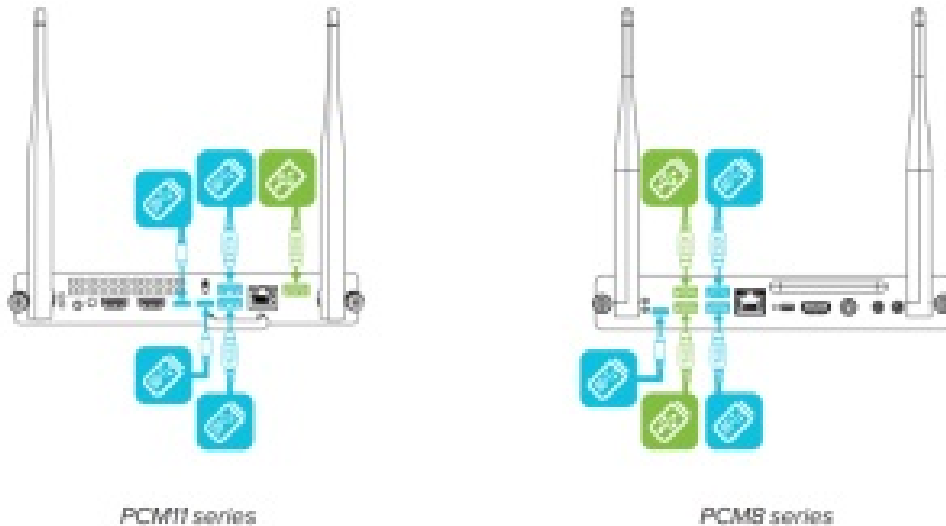| Display series	iQ status	Procedure
GX	N/A	Open the **Side Toolbar** menu by tapping and sliding either of the Side Toolbar menus handles ⟫ (located on either side of the screen) towards the center of the screen, and then tap the **Input Source** icon 🖥 OR Press the Input Source button on the remote control.
MX100	N/A	Press the **Input** button ➡ on the front control panel or the remote control.
MX (V2) MX (V2) Pro	Enabled or disabled	Press the **Input** button ➡ on the front control panel or the remote control.
6000S 6000S Pro 7000R 7000R Pro	Enabled	Tap the **Home** button ⬯ below the screen, and then tap **Input** ▭ OR Press the **Input** button ➡ on the remote control.
6000S 6000S Pro 7000R 7000R Pro	Disabled	Tap the **Home** button ⬯ below the screen. OR Press the **Home** button ⌂ or the **Input** button ➡ on the remote control. **TIP** If you want the OPS PC module's input source to appear whenever you wake up the display, tap the star in the the upper-left corner of the OPS PC module's thumbnail.
7000-V2 7000-V2 Pro	Enabled or disabled	Tap the **Home** button ▬ at the bottom of the screen, and then tap **Input** ▭.

Select the OPS PC module input source.

Chapter 2
Installing and using the SMART OPS PC module

Connecting USB drives, peripherals, and other devices

You can use USB drives, peripherals, and other devices with the OPS PC module by connecting those devices to the OPS PC module's USB 2.0 Type-A, USB 3.0 Type-A, and USB Type-C receptacles.

PCM11 series   PCM8 series

Alternatively, you can connect USB devices to the USB receptacles on the display. For information about the type and location of USB receptacles on the display, see the display's documentation.

NOTE
Charge a maximum of five devices (PCM11 series) or two devices (PCM8 series) at a time using USB receptacles.

Chapter 2
Installing and using the SMART OPS PC module

Connecting external displays

You can connect an external display to the HDMI out connector on the OPS PC module (rather than the HDMI out connector on the display). This allows you to duplicate or extend the OPS PC module's desktop to the external display.

PCM11 series (HDMI 2.0 out)   PCM8 series (HDMI 1.4 out)

Chapter 3
Troubleshooting

This chapter explains how to resolve common issues with the SMART OPS PC module. If the symptoms you're encountering aren't covered below or the solutions to the symptoms don't work, refer to the SMART knowledge base (**community.smarttech.com**) for additional troubleshooting information.
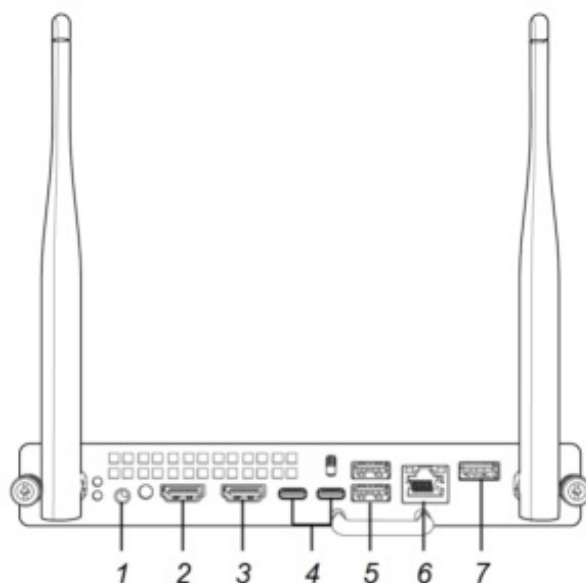
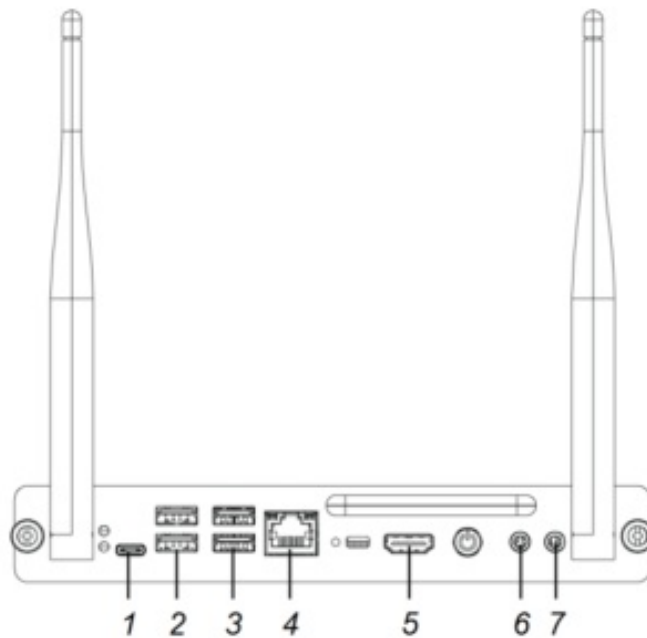| Symptom	Troubleshooting steps
The on-screen keyboard isn't visible.	• Enable the on-screen keyboard: a. Select **Start > Settings.** The Settings window appears. b. Tap Ease of Access, and then tap Keyboard. c. Enable Use the On-Screen Keyboard. For more information, see **Use the On-Screen Keyboard (OSK) to type** • Enable tablet mode: Tap the notification icon ⬜ in the bottom-right corner of the screen ar en select **Tablet mode.** For more information, see **Turn tablet mode on or off.**
	• Restart the OPS PC module: a. Press and hold the power button on the OPS PC module. b. Wait two minutes. c. Press the power button to turn on the OPS PC module. • If restarting the OPS PC module doesn't resolve the issue, contact SM support.
There is an issue with Bluetooth.	See **Fix Bluetooth problems in Windows 10: FAQ.**
There is an issue with the network connection.	See **Fix network connection issues in Windows.**

Appendix A Connectors

PCM11 series

The following diagram and table present the connectors on the PCM11 series of SMART OPS PC modules:

NO	Connector	Connects to	Notes
1	Stereo 3.5 mm	Headphones or headsets	See **Analog audio cables and connectors.**
2	HDMI in	External video source	See **HDMI cables and connectors.**
3	HDMI out	External display	See Connecting external displays on page 10 and **HDMI cables and connectors.**
4	USB Type-C (× 2)	Supported USB drives, peripherals, and other devices	See Connecting USB drives, peripherals, and other devices on page 9 and **USB cables and connectors.**
5	USB 3.0 Type-A (×2)	Supported USB drives, peripherals, and other devices	See Connecting USB drives, peripherals, and other devices on page 9 and **USB cables and connectors.**
6	RJ45	[N/A]	The OPS PC module uses the MART Board interactive display's network connection (if available), so you typically don't need to connect the OPS PC module directly to a network.
7	USB 2.0 Type-A	Supported USB drives, peripherals, and other devices	See Connecting USB drives, peripherals, and other devices on page 9 and **USB cables and connectors.**

PCM8 series

The following diagram and table present the connectors on the PCM8 series of SMART OPS PC modules:

NO	Connector	Connects to	Notes
1	USB Type-C	Supported USB drives, peripherals, and other devices	See Connecting USB drives, peripherals, and other devices on page 9 and **USB cables and connectors.**
2	USB 2.0 Type-A (×2)	Supported USB drives, peripherals, and other devices	See Connecting USB drives, peripherals, and other devices on page 9 and **USB cables and connectors.**
3	USB 3.0 Type-A (×2)	Supported USB drives, peripherals, and other devices	See Connecting USB drives, peripherals, and other devices on page 9 and **USB cables and connectors.**
4	RJ45	[N/A]	The OPS PC module uses the SMART Board interactive display's network connection (if available), so you typically don't need to connect the OPS PC module directly to a network.
5	HDMI out	External display	See Connecting external displays on page 10 and **HDMI cables and connectors.**
6	Stereo 3.5 mm out	External speakers or headphones	See **Analog audio cables and connectors.**
7	Stereo 3.5 mm in	Microphone	See **Analog audio cables and connectors.**

Appendix B
Hardware environmental compliance

SMART Technologies supports global efforts to ensure that electronic equipment is manufactured, sold, and disposed of in a safe and environmentally friendly manner.

Waste Electrical and Electronic Equipment (WEEE)

 Electrical and electronic equipment and batteries contain substances that can be harmful to the environment and to human health. The crossed-out wheeled bin symbol indicates that products should be disposed of in the appropriate recycling stream and not as regular waste.

Batteries
The OPS PC module contains a CR2032 coin cell battery. Recycle or dispose of batteries properly.
Perchlorate material
the battery contains perchlorate material. Special handling may apply. See
dtsc.ca.gov/hazardouswaste/perchlorate.
More information
See **smarttech.com/compliance** for more information.

SMART TECHNOLOGIES
smarttech.com/support
smarttech.com/contactsupport
smarttech.com/kb/171747

Documents / Resources

	SMART PCM11-i5 OPS PC modules with Windows 10 Pro [pdf] User Guide PCM11-i5, PCM11-1, PCM11-i7v, PCM11-2, PCM8-i5, PCM8-1, PCM8-i7v, PCM8-2, OPS PC modules with Windows 10 Pro
	SMART PCM11-i5 OPS PC modules [pdf] User Guide PCM11-i5 OPS PC modules, PCM11-i5, OPS PC modules, PC modules

References

- 🔵 **community.smarttech.com**
- 🔖 **dtsc.ca.gov/hazardouswaste/perchlorate**
- 🔖 **Product Compliance Documents | SMART Technologies**
- 🔖 **Contact Us**
- 🔖 **smarttech.com/kb/171429**
- 🔖 **smarttech.com/kb/171544**
- 🔖 **smarttech.com/kb/171747**
- 🔖 **smarttech.com/kb/171761**

- smarttech.com/kb/171775
- SMART Support - SMART Technologies
- Patent Listing - SMART Technologies
- community.smarttech.com/s/topic/0TOU0000000fyjeOAA/accessories?&tabset-823c7=2
- dtsc.ca.gov/hazardouswaste/perchlorate
- Fix Wi-Fi connection issues in Windows - Microsoft Support
- Use the On-Screen Keyboard (OSK) to type - Microsoft Support
- Fix Bluetooth problems in Windows - Microsoft Support
- Turn tablet mode on or off - Microsoft Support
- support.smarttech.com/docs/redirect/?product=cables&context=analogaudio
- support.smarttech.com/docs/redirect/?product=cables&context=hdmi
- support.smarttech.com/docs/redirect/?product=cables&context=usb
- Product Compliance Documents | SMART Technologies
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