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Industrial Panel PC with 15 in. LCD

NI PPC-2015 *NEW!*

- Rugged industrial platform for NI programmable automation controllers (PACs)
- 2.0 GHz Pentium 4 processor, 512 MB RAM
- 40 GB HDD, CD-ROM, and floppy drive
- Communication ports
  - 1 Ethernet 10/100BaseT
  - 5 USB 2.0 (1 with front-panel access)
  - 1 RS232 and 1 RS232/422/485
  - 2 PCMCIA (Type II)
  - 2 IEEE 1394
  - 2 PS/2
- Expansion slots for 2 half-length PCI boards
- NEMA4/IP65-compliant front panel
- Stainless steel chassis
- Panel mount
- 0 to 50 °C operating range
- BSMI, CCC, CE, FCC, and UL certifications

Accessories

- Rack-mount kit



Overview

The National Instruments PPC-2015 is an industrial panel PC with built-in touch screen. The NI PPC-2105 combines a 2 GHz Pentium 4 proccessor with a rugged 15 in. touch screen to create a human-machine interface (HMI) system for NI PACs. When configured with National Instruments LabVIEW software, it provides a complete HMI solution. It also can become a versatile measurement and automation workstation when configured with NI hardware such as industrial PCI-based DAQ boards or external USB-based DAQ modules. With National Instruments hardware and software platforms, you can address a wide range of measurement and automation applications.

Rugged Industrial Design

The PPC-2015 features a stainless steel chassis with an aluminum front panel. An integrated NEMA4/IP65-compliant touch screen display eliminates the cabling associated with external monitors, and its flat-panel technology conserves limited rack and panel space on the plant floor. The PPC-2015 touch screen display features tempered, antireflective glass that is also coated to minimize scratching. NEMA4/IP65 compliance ensures that the unit can meet applications with hose-down requirements. Unlike commercial PCs, the PPC-2015 features extended shock, vibration, and temperature ratings plus global safety standards and agency certifications. To address special application requirements, a rack-mount kit is available.

Flexible Open Platform

Unlike dedicated visualization platforms such as message displays and graphics terminals, the PPC-2015 features an open, extensible PC-based architecture fully compatible with National Instruments and commercial third-party hardware and software components. Featuring Windows XP, an internal PCI bus, and a choice of communication buses (serial, parallel, USB, PCMCIA, and Ethernet), it can be configured to address requirements beyond traditional HMI applications. When configured with the NI LabVIEW graphical programming environment and data acquisition, vision, motion, or PAC hardware, the PPC-2015 provides a complete, ready-to-run solution.

NI Product Support for PPC-2015

	DAQ	Modular Instruments	Vision	Motion	Compact FieldPoint	CompactRIO
PCI	✓	✓	✓	✓	–	–
USB	✓	–	–	–	–	–
Ethernet	✓	✓	✓	✓	✓	✓
PCMCIA	✓	–	–	–	–	–
Serial	–	–	–	–	✓	✓

Programmable Automation Controller (PAC)

The PPC-2015 is a PAC platform based on an open-architecture commercial platform. By using industry standards (for example PCI, USB, and Ethernet), LabVIEW software, and NI hardware and software components, the PPC-2015 system provides:

- A single environment for HMI and programming
- A complete solution – I/O, motion, vision, and software
- Time and cost-saving single sourcing
- Guaranteed compatibility between system hardware and software components
- Tight integration of system components for optimal performance
- Easy integration of third-party hardware components
- Device-level and enterprise-level connectivity

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Typical Applications

HMI



Figure 1. The PPC-2015 functions as an HMI for LabVIEW SCADA applications.

Use LabVIEW to quickly create custom graphical user interfaces (GUIs) incorporating high-resolution graphics. With LabVIEW, the PPC-2015 becomes a powerful HMI.

HMI with PCI-Based I/O

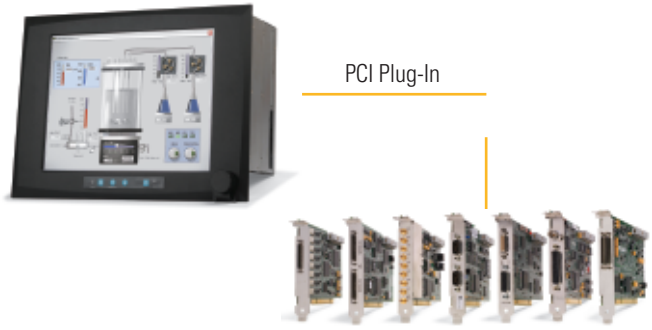


Figure 2. The PPC-2015 accepts half-length PCI boards to provide a wide range of I/O.

Add up to two multifunction DAQ, industrial digital I/O, or industrial vision boards to create a monitoring and control system. Choose from a broad selection of PCI plug-in board options to address monitoring and control applications typically beyond the range of standard PLC-based functionality.

HMI with Industrial Distributed I/O



Figure 3. The PPC-2015 connects via Ethernet or serial to an embedded real-time controller and distributed I/O with Compact FieldPoint.

With LabVIEW and the LabVIEW Datalogging and Supervisory Control Module, you can create a supervisory control and data acquisition (SCADA) system using FieldPoint or Compact FieldPoint distributed I/O. Incorporate Ethernet switches from National Instruments Alliance Partners to integrate plant-floor devices connected to industrial field buses (for example, DeviceNet). In plant-wide SCADA systems, the PPC-2015 functions as the local HMI device and as a data concentrator that shares data in real time throughout the enterprise.

HMI with Integrated Motion Control

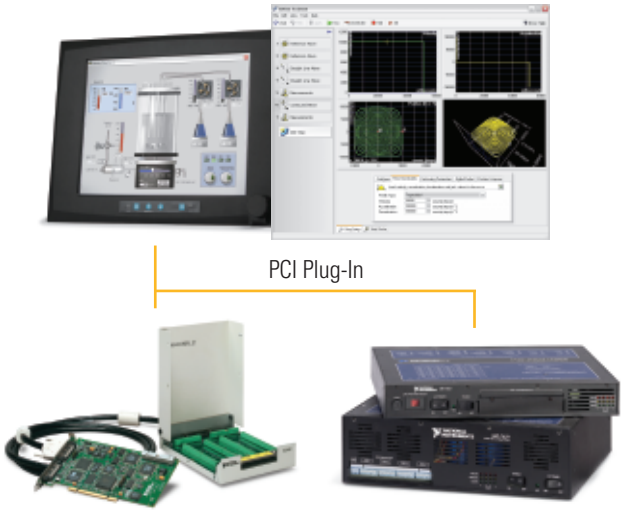


Figure 4. The PPC-2015 houses PCI motion control boards to address sophisticated motion control applications.

Add motion to your HMI-based system with plug-in PCI motion boards and integrate NI motion controllers with NI motion drivers for LabVIEW. The PPC-2015 functions as the development platform, system controller, and HMI for simple single-axis or more complex multiaxis motion control applications.

HMI with Integrated Vision





PCI Plug-In

Figure 5. Integrate PCI-based vision or Ethernet-based vision with NI Compact Vision System.

Use NI Vision Builder for Automated Inspection (AI) software to create basic vision applications. With this software, you can prototype, benchmark, and deploy vision applications without programming. Quickly and easily create cost-effective PCI-based vision systems based on the PPC-2015 with Vision Builder AI software.

NEMA4 and IP65 Industrial Ratings

The NI family of HMIs – FPT-1015, TPC-2006, and PPC-2015 – all feature a NEMA4 and IP65 industrial-rated front panel or bezel. When these systems are panel-mounted in a NEMA4 or IP65 industrial enclosure, they are capable of withstanding the ingress of dust and water jets. The NEMA4/IP65 rating makes these systems ideal for harsh environments on the factory floor, in industrial plants, and for pharmaceuticals. NEMA4 is a U.S. standard set by the National Electrical Manufacturer's Association, and IP65 is a European standard set by the Institute of Petroleum that defines the water and dust resistance levels of a product.

NI Panel PC Connectivity

The PPC-2015 provides connectivity to a wide variety of external devices with one Ethernet, five USB, two IEEE 1394, and two RS232 serial ports; in addition there are two half-length PCI and two PCMCIA Type II slots available. These connectivity options provide access to a wide range of NI data acquisition hardware and an Ethernet network (see Figure 6).



Figure 6. PPC-2015 Rear View

Ordering Information

NI PPC-2015 with

- Windows XP 779562-01
- No OS 779569-01

NI PPC-2015 rack-mount kit 779574-01

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For complete product specifications, pricing, and accessory information, call (800) 813 3693 (U.S.) or go to **ni.com/pxi**.

Specifications

System Components

Processor	Pentium 4, 2.0 GHz (Socket 478)
RAM	512 MB DIMM
Storage	40 GB 3.5 in. HDD
Removable media	3.5 in. FDD, and CD-ROM drive
I/O ports	2 serial, 1 RS232 (COM1) and 1 RS232/422/485 (COM2); 1 parallel (SPP/EPP/ECP), 5 USB v2.0, 2 PCMCIA (Type II); 1 10/100BaseT Ethernet 1 S-video, 2 IEEE 1394, 2 PS/2
Bus expansion	2 half-length PCI
Operating system	Windows XP

Display

Description	XGA TFT LCD flat panel
Size	15 in.
Resolution	1024 x 768
Viewing angle	100 deg (v), 120 deg (h)
Luminance	350 cd/m^2
Backlight life	50,000 hours
Color	≥262,000

Touch screen

Type	Analog resistive, continuous resolution
Light transmission	75%
Durability	1 million touch lifetime of single point

Electrical

Input voltage	100 to 240 VAC (autoswitching)
Line frequency	50 to 60 Hz
Output voltage (V)	
5	15 A
+12	5 A
-12	0.5 A

Cooling

Chassis cooling system	Forced air circulation (positive pressurization)

Physical

Dimensions (h by w by d)	430 by 310 by 150 mm (16.9 by 12.2 by 5.9 in.)
Gross weight	13 kg (28 lb)
Dimensions, cutout (h by w)	314 by 406 mm (12.36 by 15.98 in.)
Mounting	Panel (standard), rack-mount (optional)

Mean Time Between Failure (MTBF)

Power supply	200,000 hours

Environmental

Operating temperature	0 to 50 °C (32 to 122 °F)
Storage temperature	-20 to 60 °C (-4 to 140 °F)
Relative humidity	5 to 85% @ 40 °C (noncondensing)
Vibration, operating	5 to 500 Hz, 1 g_{rms}

Safety and EMC/EMI Compliance

EMC/EMI	CE, and FCC Part 15
Ratings	NEMA Type 4, IP65
Certifications	UL, CE, BSMI, CCC, and FCC (Class B)

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