

WAGO-I/O-IPC-P14 Linux 2.6

High-performance industrial PC with Pentium®M 1,4 GHz



Compact and robust, the WAGO-I/O-IPC-P14 is designed for general control applications. The high-performance IPC can fully perform controlling, monitoring and visualization tasks.

The I/O-IPC features 1.4 GHz Pentium®M processor and all standard PC interfaces (e.g., 2 x USB, RS-232, DVI-I and 2 x ETHERNET).

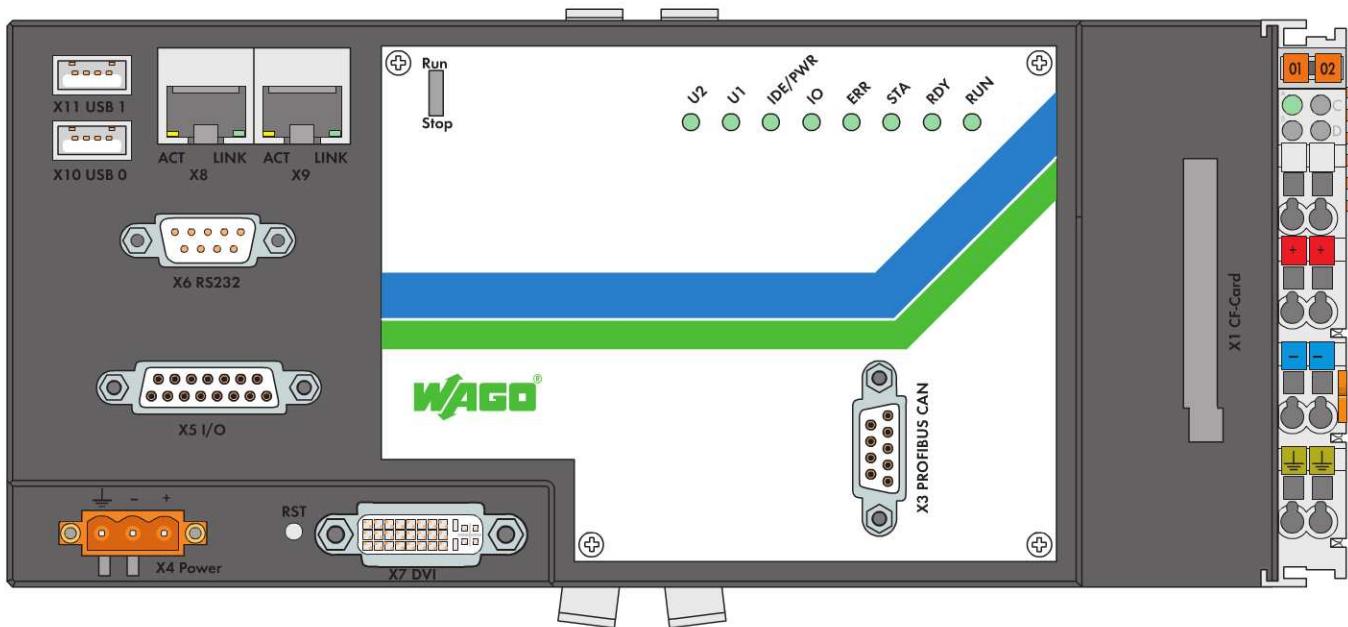
Depending on the application, WAGO-I/O-SYSTEM modules are connected to the I/O-IPC to suit the particular task. Two opto-isolated digital I/Os (24VDC) are directly integrated for fast signal transmission.

With optional CANopen and PROFIBUS DP fieldbuses in master version, the I/O-IPC may also function as a main PLC in industrial environments.

Using Linux operating system and optional CoDeSys PLC software, including CoDeSys visualization, a stable and high-performance automation system featuring universal communication characteristics is available for long-term, reliable service.

Description	Item No.	Pack. Unit
I/O-IPC-P14 Linux 2.6	758-876/000-010	1
I/O-IPC-P14 Linux 2.6 PROFIBUS DP Master	758-876/000-011	1
I/O-IPC-P14 Linux 2.6 CANopen Master	758-876/000-012	1
I/O-IPC-P14 Linux 2.6 CoDeSys Visu	758-876/000-110	1
I/O-IPC-P14 Linux 2.6 CoDeSys Visu	758-876/000-111	1
PROFIBUS DP Master		
I/O-IPC-P14 Linux 2.6 CoDeSys Visu	758-876/000-112	1
CANopen Master		
Accessories	Item No.	Pack. Unit
WAGO-I/O-PRO CAA	759-333	1
CF memory card	758-879	10
Miniature WSB Quick marking system		
plain	248-501	5
with marking	see pages 304 ... 305	
Memory cards, connection cables	see page 397	
Approvals		
UL 508		
Conformity marking	CE	

Technical Data	
Number of I/O modules (per node)	64
with bus extension	250
Max. input process image	500 bytes
Max. output process image	500 bytes
CPU	Pentium®M; 1.4 GHz
Main memory (RAM)	256 Mbytes
Internal memory (flash)	512 Mbytes
Non-volatile memory (retain)	1024 Kbytes
Bios	Insyde
Graphic	DVI, 1280 * 1024; LCD / Panellink
Memory expansion	Compact Flash Type I/II
LAN	2 x 10Base-T/100Base-TX
Fieldbus (optional)	PROFIBUS DP master, CANopen master



Technical Data

I/O interfaces (serial)	1 x serial interface; COM 1 acc. to EIA RS-232 standard; 9-pole D-Sub plug
I/O interfaces (USB)	2 x USB port acc. to Specification 2.0
Additional interfaces	2 x digital output, isolated; 2 x digital input, isolated
Diagnostic LEDs	Power supply; Watchdog; PROFIBUS DP, CANopen; Run/Stop; IDE;
Programming	Internal data bus WAGO-I/O-PRO CAA
IEC 61131-3	IL, LD, FBD, ST, FC
Operating system	Linux 2.6 with RT-Preempt patch
RT support	1024 KB PLC SRAM battery backup; NMI timer
Watchdog	Trigger interval 400 ms (reset triggered at time-out)
Voltage supply	24 V DC (-25 % ... +30 %)
Max. input current (24 V)	770 mA
Total current for I/O modules (5 V)	1000 mA
Ambient conditions	
Operating temperature	0 °C ... +55 °C
Storage temperature	-10 °C ... +85 °C
Vibration resistance	
Operation	0.5 G, 10-500 Hz
Storage/transit	1 G, 10-500 Hz
Shock resistance	
Operation	5 g, 11 ms, 6 axis
Storage/transit	30 g, 11 ms., 6 axis
Humidity	
Operation	5-90 %, non condensing at 50 °C
Storage/transit	0-90 %, non condensing at 50 °C
Altitude	
Operation	0 ... 10,000 ft
Storage/transit	0 ... 50,000 ft

Technical Data

Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Stripped lengths	8 ... 9 mm / 0.33 in
Dimensions (mm) W x H x L	236 x 70 x 100
Weight	Height from upper-edge of DIN 35 rail 1100 g
Electromagnetic compatibility	Unwanted emission limits and operation acc. to DIN EN 55022, DIN EN 50081-1;
	Interference immunity limits and operation acc. to DIN EN 50082-2
Protection & safety	Safety limits and operation acc. to DIN EN 60950
Degree of protection	IP20 acc. to DIN 40050
Type of mounting	DIN 35 rail
Housing material	Aluminum