

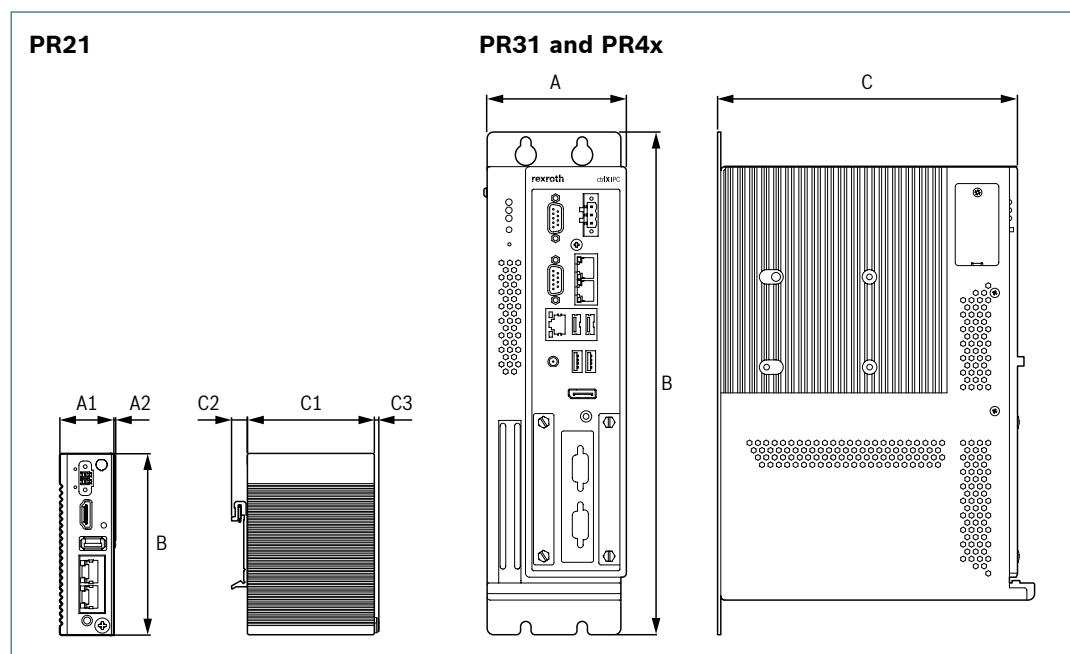


# Industrial PC-based automation for smart processes

The future is smart. This is also true in the industry and other segments that are increasingly relying on digitalization. Here, the intelligence and efficiency of systems are elementary. But demanding process controls and technologies such as edge computing require high performance reserves. Bosch Rexroth provides these flexibly and scalably by means of ctrlX IPC – even for high-end applications.

You can find more information at: [www.ctrlx-automation.com/ctrlx-IPC](http://www.ctrlx-automation.com/ctrlx-IPC)

### Dimensions



Type	PR21	PR31	PR4x
A	–	50 mm	83 mm
A1	30 mm	–	–
A2	1 mm	–	–
B	100 mm	312 mm	312 mm
C	–	181 mm	186 mm
C1	70 mm	–	–
C2	9 mm	–	–
C3	2.5 mm	–	–

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### Performance data

Type	PR21	PR31	PR4x
CPU	Intel Atom E3815; 1.46 GHz	Intel Atom x5-E3940; 1.6 GHz	Intel Core i3-6100U; 2.3 Ghz Intel Core i5-6300U; 2.4 Ghz Intel Core i7-6600U; 2.6 Ghz
RAM	4 GB	4 GB optional 8 GB	8 GB optional 16 GB
Operating system	Linux Ubuntu Core	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise

### Hardware

Type	PR21	PR31	PR4x
PCI/PCIe slots	–	–	1 x half size PCIe
Mini PCIe slots	1 x full size mSATA	1 x full size	2 x full size
Flash memory	32 GB, eMMC	optional M.2-Flash + CFast-slot	optional M.2-Flash + CFast-slot
SSD memory	optional 64 GB or 256 GB	64 GB optional 256 GB	64 GB optional 256 GB or 2 x 256 GB RAID
HDD memory	–	320 GB	320 GB optional 2 x 320 GB RAID

### Interfaces

Type	PR21	PR31	PR4x
Ethernet	2 x Gbit optional 2 x Gbit	2 x Gbit	3 x Gbit
USB host	1 x USB 3.0 optional 3 x USB 2.0	2 x USB 2.0 2 x USB 3.0	2 x USB 2.0 2 x USB 3.0
Video Interface	1 x HDMI	DisplayPort, optional CDI+ LongDistanceVideo 100 m, single cable	DisplayPort, optional CDI+ LongDistanceVideo 100 m, single cable
Serial interface	optional 2 x RS232/422/485	1 x RS232 1x RS232/422/485	1 x RS232 1x RS232/422/485
Audio interface	–	Line out	Line out

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### Electrical data

Type	PR21	PR31	PR4x
Input voltage	24 V DC, -20/+25 %	24 V DC, -20/+25 %	24 V DC, -20/+25 %
Max. power consumption	20 W	19.2 W	70 W
EMC	Class A	Class A	Class A
RTC buffering	Internal battery	Internal battery	Internal battery

### Mechanical tests

Type	PR21	PR31	PR4x
Vibration resistance	2 g	2 g (0.3 g with HDD)	2 g (0.3 g with HDD)
Shock resistance	10 g	10 g	10 g

### General data

Type	PR21	PR31	PR4x
Ambient temperature (operation)	+0 ... +50 °C	+0 ... +55 °C	+0 ... +55 °C
Ambient temperature (storage/transport)	-20 ... +70 °C	-20 ... +60 °C	-20 ... +60 °C
Permissible humidity (operation)	–	85 % (bei 40 °C, non-condensing)	85 % (bei 40 °C, non-condensing)
Assembly	DIN rail	Wall assembly	Wall assembly
Cooling	Convection (fanless)	Convection (fanless)	Convection (fanless)
Degree of protection	IP 20	IP 20	IP 20

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