IPC191V5

Gateway hardware with Linux operating system

Datasheet





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Power Supply 115 / 230 V AC (standard variant)

Voltage U_{PWR1} : 115 / 230 V AC

(90 - 264 V AC)

Power consumption Max. 50 W; Typ. 25 W (depending on the used type)

Starting current Max. 30 A (at 230 V AC)

Input frequency 47 – 63 Hz

Holding time ≥ 20 ms at 230 V AC

Fan Fanless

Power Supply 12 / 24 V DC (optional variant)

Voltage U_{PWR1} : 12 / 24 V DC

(9 – 32 V DC)

Power consumption Max. 50 W; Typ. 25 W (depending on the used type)

Starting current Max. 13 A (at 10V DC)
Holding time ≥ 1 ms at +24 V DC

Fan Fanless

Power Supply 48 / 60 / 110 V DC (optional variant)

Voltage *U_{PWR1}*: 48 / 60 / 110 V DC

(30 - 120 V DC)

Power consumption Max. 50 W; Typ. 25 W (depending on the used type)

Starting current n/a
Holding time n/a

Fan Fanless

Note: Further power supplies available on request.

Mainboard

Embedded CPU Intel® Series CPU

Four cores with up to 2.6 GHz passively cooled

RAM 8GB DDR4

Mass storage SATA & mSATA interface

Real time clock Supported by a lithium battery (CR2032)

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Interfaces

Ethernet 6x RJ45 10/100/1000BaseT LAN interface

Serial interface 1x RJ45 RS232 rear

2x DB9 RS232 rear 1x DB9 RS232 front

Extension port 1x PCI Express x1 slot

for 8x/16x RS232- or 4x Ethernet interface card

Mass storage CFast • Rugged CFast card, industrial – grade

Max. 64 GB supported
 MTBF ≥ 4,000,000 hours

No moving partsRemovable flash card

Bad Block Scanning/Handling

Wear-Leveling system

ECC

Very short access time

USB 4 x USB (2x USB 3.0, 2x USB 2.0 front)

Monitor HDMI

Diagnostics (Status LEDs)

Front PWR: Power LED

CPU: LED to show different software conditions

Mass storage: CFast activity LED

Rear PWR: m/b power LED

Mass storage activity

LAN 1-6: Link and activity LED

Housing

Body material Steel chassis

Mounting 19" rack mount chassis (1U)

Expansion slot 1x PCle x1

IP Code IP20

Rotating parts Excellent air flow with temperature-controlled fans which

are switched on only if a certain CPU temperature and system temperature respectively has been exceeded

(configurable).

Dimensions (W x H x D) approx. 482.6 mm x 44.45 mm x 381.0 mm

(19" x 1.75" x 15" (W/H/D))

Weight approx. 5.1 kg

Operating Environment, reliability

Operating temperature 0 °C to 50 °C

Storage temperature -20 °C to 70 °C

Relative humidity 5% to 95% not condensing

MTBF n/a

Subject to alterations Version 1.1

Additional Functions, Features, Others

Linux operating system ipLinux

Real time clock Battery buffered real time clock (RTC)

Hardware watchdog

Temperature monitoring

✓

Power supply monitoring

✓

Approval, Standards and Conformity

Approval CE (industrial)

Standards EN IEC 61000-6-2:2019; EN IEC 61000-6-4:2019

EN IEC 61000-3-2:2019; EN 61000-3-3:2013 +A1:2019

Inclusive current basic norms (EMC – see below)

Conformity RoHS; REACH; WEEE, EMC

Electromagnetic Compatibility (EMC) – Emission Requirements

EN 55016-2-1:2014 Conducted emission from the power port +A1:2017 In the frequency range 150 kHz - 30 MHz EN 55016-2-1:2014 Conducted emission from signal lines In the frequency range 150 kHz - 30 MHz +A1:2017 EN 55016-2-3:2017 Electric field radiated emission In the frequency range 30 MHz - 1 GHz EN 55016-2-3:2017 Radiated emission from the enclosure In the frequency range above 1 GHz EN 61000-3-3:2013 Voltage fluctuations and flicker impressed on the public low-voltage system with rated current ≤ 16 A per phase EN 61000-3-2:2014 Harmonic current emissions impressed on the public lowvoltage system with rated current ≤ 16 A per phase

Electromagnetic Compatibility (EMC) – Immunity Requirements

EN 61000-4-2:2009	Immunity to electrostatic discharge (ESD) - Contact discharge ± 4 kV - Air discharge ± 8 kV
EN 61000-4-3:2006 +A1:2008 +A2:2010	Immunity to RF electromagnetic fields - 80 – 1000 MHz, Test level 10 V/m - 1.4 – 6 GHz, Test level 3 V/m
EN 61000-4-4:2012	Immunity to fast transients (Burst) - AC power port ± 2 kV - DC power port ± 1 kV - Signal lines ± 0.5 kV
EN 61000-4-5:2014 +A1:2017	Immunity to surges on power supply lines (Surge) - AC power port: line <-> ground ± 2 kV - AC power port: line <-> line ± 1 kV - DC power port: line <-> ground ± 1 kV - DC power port: line <-> line ± 0.5 kV
EN 61000-4-5:2014 +A1:2017	Immunity to surges on shielded signal lines (Surge) - Shielded lines ± 1 kV
EN 61000-4-6:2014	Immunity to conducted interference induced by radio- frequency fields - 150 kHz – 80 MHz, test level 10 V
EN 61000-4-11:2004	Immunity to voltage dips and interruptions - residual voltage 0% / 1 cycle - residual voltage 40% / 10 cycle - residual voltage 70% / 25 cycle - residual voltage 0% / 250 cycle