

Industrial PC IPC191V4 (Linux OS) Datasheet



IPCOMM GmbH

Walter-Bouhon-Straße 4
90427 Nuremberg
Germany

Phone: +49 911 18 07 91-0
Fax: +49 911 18 07 91-10
Internet: <http://www.ipcomm.de>
Email: info@ipcomm.de

**Edition May 2015
Version 1.2**



Technical Data

Diagnostic LEDs

- Power LED
- LED to show different software conditions
- HDD LED
- CFast activity LED

Mass storage CFast

- Rugged CFast card, industrial – grade
- Max. 64 GB supported
- MTBF \geq 4,000,000 hours
- No moving parts
- Removable flash card
- Bad Block Scanning/Handling
- Wear-Leveling system
- ECC
- Very short access time

Mass storage SATA HDD, Raid Level 1 or 0 possible (optional)

- up to two server HDDs for continuous operation
- MTBF \geq 1,200,000 hours

Mass storage SATA 2,5" SSD or removable HDD (optional)

- No moving parts
- Very short access time
- Very high write/read performance

Supported operating systems

- Linux

Additional functions

- Battery buffered real time clock (RTC)
- Watchdog

Standards

The device is CE certified and tested according to type of test
EN 61000-6-2: 2005
EN 61000-6-4: 2007+ A1:2011
EN 61000-3-2: 2006 + A1:2009 + A2:2009
EN 61000-3-3: 2008
(The test report is available on request.)

Housing

- 19" rack mount chassis (1U)
- 2x PCIe
- 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)

MTBF

> 100,000 hours

**Power supply AC
(delivery model 1 – standard)**

- Fanless
- 90 – 264 V AC, 104 – 373 V DC auto range
- Starting current max. 30 A
- Input frequency 47 – 63 Hz
- Hold up time \geq 20 ms, 230 V AC
- Power consumption max. 50 W (depending on the used type)

**Power supply 24 V DC
(delivery model 2 – optional)**

- Fanless
- 9 – 32 V DC
- Starting current max. 30 A at 24 V DC
- Hold up time $>$ 1 ms at +24 V DC and rated load
- Power consumption max. 50 W (depending on the used type)

Further power supplies available on request.

Mainboard

- Intel® Celeron® Embedded Quad-Core 64-bit processor, up to 2.16 GHz, passively cooled (up to 3x faster than CPU of IPC191V3)
- DDR3 RAM max. 8 GB
- SATA interface
- 2 serial ports
- Real-time clock/calendar
- 5 x RJ45 10/100/1000BaseT LAN interface, more on request (over PCIe)
- 6x USB (5x USB 2.0, 1x USB 3.0) (more on request)
- RAID SATA functionality (RAID Level 0 or RAID Level 1)

Serial cards

- up to 32 RS-232 ports
- DB9 male connectors, optional RJ45, DB25 (male, female)
- Baud rate 50 bps to 921,600 bps
- 15 KV ESD protection
- optional 4 kV surge protection

Optical drive (optional)

CD/DVD writer with slot-in technology

Video

- Standard VGA interface
- HDMI interface (DVI possible with an adapter)

Dimensions

- Height 1 U
- 19" x 1.75" x 15" (W/H/D)
482.6 mm x 44.45 mm x 381 mm (W/H/D)

Weight

ca. 5.20 kg (depending on the used type)

Operating environment

- Operating temperature: 0° C to 50° C
- Storage temperature: 0° C to 60° C
- Relative humidity (non condensing): 5 % to 95 %

Assembled by IPCOMM GmbH/Germany