

# IPC191I7

## Datasheet



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# Technical Data

## Chassis

- 19" rack mount chassis (1U)
- Dual PCIe riser card
- Excellent air flow for maximum heat dissipation with ball bearing mounted industrial fans

## Power Supply AC

- Fanless
- 85 – 264 V AC, 104 – 350 V DC auto range
- Input frequency: 47 – 63 Hz
- Hold up time: > 40 ms at 230 V AC and full load, 10 ms at 115 V AC and full load
- Switch-on delay: 300 - 500 ms
- Power consumption: max. 100 W (depending on the used type)
- CE, UL 60950-1, EN 60950-1, IEC 61850-3

## Power Supply DC (optional)

- Fanless
- 9 – 32 V DC
- Hold up time: > 50 ms
- Switch-on delay: 100...500 ms
- Power consumption: max. 70 W (depending on the used type)
- CE, UL 60950-1, EN 60950-1, IEC 61850-3

## Mainboard / CPU

- Intel Core i7 Quad-Core CPU 3,4 GHz with Hyper-Threading Technology
- DDR4 RAM max. 32 GB
- SATA interfaces
- 2 serial interfaces outward
- 2 x RJ45 10/100/1000 BaseT LAN interfaces onboard
- 6 x USB 2.0 outward
- 4 x USB 3.0 outward
- RAID SATA functionality (RAID Level 0/1)

## Serial Cards

- Up to 32 RS-232 interfaces
- DB9 male connector
- Baud rate 300 bps to 921,600 bps
- 15 KV ESD protection

## Diagnostics

- Power LED
- LED to show different software conditions

## Additional Functions

- Battery buffered real-time clock (RTC)
- Reset

### **Mass Storage CFast**

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

### **Mass Storage SATA HDD Raid Level 1 or 0 possible (optional)**

- Two server HDD for continuous operation
- Max. 2 TB
- MTBF  $\geq$  1,200,000 hours

### **Mass Storage SATA SSD, Raid Level 1 or 0 possible (optional)**

- No moving parts
- Max. 128 GB
- Very short access time
- Very high write/read performance

### **Supported Operating Systems**

- Linux

### **Optical Drive (optional)**

- CD/DVD writer with slot-in technology

### **Video**

- 1 x DVI interface, 2 x display port

### **Operating Environment**

- Operating temperature: 0 °C to 45 °C
- Storage temperature: 0 °C to 60 °C
- Relative humidity: 5 % to 95 % not condensing

### **General**

- Height: 1 U
- Dimension (W x H x D): 19" x 1.75" x 15" (482.6 mm x 44.45 mm x 381 mm)
- Weight: approx. 6 kg (depending on the used type)

## Standards

IEC 61850-3:2013\*)  
IEC 61000-6-2:2005  
IEC 61000-6-4:2006 + A1:2010  
CISPR 22:2008

### Electromagnetic Compatibility (EMC) - Emissions

**Conducted and Radiated Emissions:** IEC 61000-6-4  
CISPR 22:2008

**Voltage Flicker:** IEC 61000-3-3:2013

**Harmonic Current:** 61000-3-2:2014

### Electromagnetic Compatibility (EMC) - Immunity

**Fast Transient/Burst:** IEC 61000-4-4:2012  
Severity Level: Class A  
4 kV on power supply and outputs;  
1 kV, 4 kV on communications lines

**Surge Immunity:** IEC 61000-4-5:2014  
AC Power Supply: 4 kV line <-> ground  
2 kV line <-> line  
DC Power Supply: 2 kV line <-> ground  
1 kV line <-> line

**Conducted RF:** IEC 61000-4-6:2014  
Severity Level: 10 Vrms

**Power Supply:** IEC 61000-4-11  
IEC 61000-4-17  
IEC 61000-4-29

**Electrostatic Discharge:** IEC 61000-4-2  
2, 4, 6 kV contact discharge;  
2, 4, 8 kV air discharge

**Radiated Radio Frequency:** IEC 61000-4-3:2006 + A1:2007 + A2:2010  
Severity Level: 10 V/m

**Immunity to damped oscillatory waves:** IEC 61000-4-18:2006+A1:2010  
Power supply and outputs  
Severity Level: 2.5 kV peak common mode  
1.0 kV peak differential mode

\*) except serial, USB and Ethernet interfaces  
(If required, corresponding interfaces must be externally protected e.g., by using our RS-232 Isolator.)

(The test report is available on request.)

**Assembled by IPCOMM GmbH/Germany**