IPC191I7

Datasheet

Edition October 2021
Version 1.2

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

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

Subject to alterations

IPCOMM GmbH
Walter-Bouhon-Strasse 4
90427 Nuremberg
Germany

- 2 -

Version 1.2

IPC191I7 Datasheet
Copyright © IPCOMM GmbH, 2021
All rights reserved

Mass Storage CFast
- Rugged CFast card, industrial – grade
- Max. 64 GB capacity
- MTBF ≥ 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 in removable frame (optional)
- SATA 2,5" SSD or HDD

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