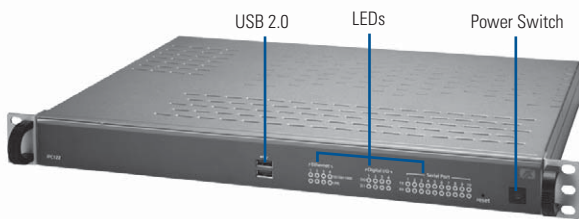


IPC122-833-FL

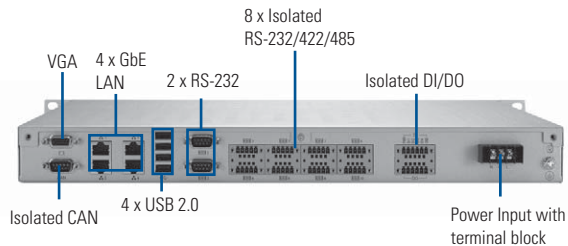
IEC 61850-3/IEEE 1613 Certificated
1U Rackmount Fanless Embedded Computer
with Intel® Atom™ Processor N2800 Multiple
Isolated LAN, Isolated COM, CAN Bus and
DIO

Features

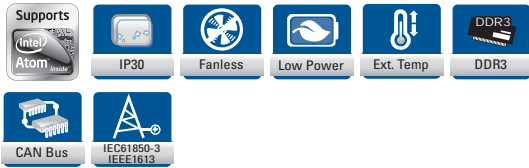
- IEC 61850-3 and IEEE 1613 certified for substation automation
- Highly efficient heat conduction with fanless design
- Intel® Atom™ processor N2800 (1.86 GHz)
- DDR3-800/1066 SO-DIMM supports up to 4 GB memory
- Isolated COM, LAN, CANBus and DIO ports
- One 2.5" SATA HDD and one CFast™ socket
- Wide temperature -10°C ~ +55°C for hash environment
- 100 ~ 240VAC and 134 ~ 370VDC wide range power input



▲ Front view



▲ Rear view



Specifications

| | | | | | | | | | | | | | | | |
|---------------------|--|-------------|--|-----|--|-----|-------------|-----|---|-----|--------------------|-------------|-------------------------------------|---------|---|
| Standard Color | Silver | | | | | | | | | | | | | | |
| Construction | Heavy-duty cold-rolled steel, IP30 | | | | | | | | | | | | | | |
| CPU | Intel® Atom™ processor N2800 (1.86 GHz) onboard | | | | | | | | | | | | | | |
| System Board | SBC87833 | | | | | | | | | | | | | | |
| BIOS | AMI UEFI BIOS | | | | | | | | | | | | | | |
| System Memory | 1 x 204-pin DDR3-800/1066 SO-DIMM, max. up to 4 GB | | | | | | | | | | | | | | |
| I/O Interface-Front | 1 x Power on/off , 1 x Reset , 2 x USB 2.0 | | | | | | | | | | | | | | |
| I/O Interface-Rear | <table border="0"> <tr> <td>Serial Port</td> <td>2 x RS-232 8 x isolated RS-232/422/485 ESD protection: 2.5KV</td> </tr> <tr> <td>LAN</td> <td>4 x 10/100/1000Mbps Ethernet Magnetic isolation protection: 1.5KV</td> </tr> <tr> <td>USB</td> <td>4 x USB 2.0</td> </tr> <tr> <td>DIO</td> <td>1 x isolated DI/DO (4-IN/4-OUT) DI: Input range: 0-30VDC at 25Hz Logic level 0: Close to GND Logic level 1: Open DO: Logic level 0: +/-12VDC min to +/-30V max. (source to DI) Logic level 1: 0 min. to +/-3VDC max.</td> </tr> <tr> <td>VGA</td> <td>1 x DB15 connector</td> </tr> <tr> <td>Power Input</td> <td>1 x power input with terminal block</td> </tr> <tr> <td>CAN Bus</td> <td>1 x CAN Bus (DB9 Connector) Magnetic isolation protection: 2.5KV</td> </tr> </table> | Serial Port | 2 x RS-232 8 x isolated RS-232/422/485 ESD protection: 2.5KV | LAN | 4 x 10/100/1000Mbps Ethernet Magnetic isolation protection: 1.5KV | USB | 4 x USB 2.0 | DIO | 1 x isolated DI/DO (4-IN/4-OUT) DI: Input range: 0-30VDC at 25Hz Logic level 0: Close to GND Logic level 1: Open DO: Logic level 0: +/-12VDC min to +/-30V max. (source to DI) Logic level 1: 0 min. to +/-3VDC max. | VGA | 1 x DB15 connector | Power Input | 1 x power input with terminal block | CAN Bus | 1 x CAN Bus (DB9 Connector) Magnetic isolation protection: 2.5KV |
| Serial Port | 2 x RS-232 8 x isolated RS-232/422/485 ESD protection: 2.5KV | | | | | | | | | | | | | | |
| LAN | 4 x 10/100/1000Mbps Ethernet Magnetic isolation protection: 1.5KV | | | | | | | | | | | | | | |
| USB | 4 x USB 2.0 | | | | | | | | | | | | | | |
| DIO | 1 x isolated DI/DO (4-IN/4-OUT) DI: Input range: 0-30VDC at 25Hz Logic level 0: Close to GND Logic level 1: Open DO: Logic level 0: +/-12VDC min to +/-30V max. (source to DI) Logic level 1: 0 min. to +/-3VDC max. | | | | | | | | | | | | | | |
| VGA | 1 x DB15 connector | | | | | | | | | | | | | | |
| Power Input | 1 x power input with terminal block | | | | | | | | | | | | | | |
| CAN Bus | 1 x CAN Bus (DB9 Connector) Magnetic isolation protection: 2.5KV | | | | | | | | | | | | | | |

| | | |
|-----------------------|--|---|
| Watchdog timer | 1 sec, 255 levels | |
| LEDs | System : 1 x Power, 1 x HDD Gigabit LAN : 4 x Active, 4 x Link Serial : 10 x TX , 10 x RX Digital I/O : 4 x DI , 4 x DO | |
| Storage | 1 x on board CFast™ socket 1 x 2.5" SATA HDD drive bay | |
| Installation | Rack mount | |
| Power Supply | Power Input | AC: 100 ~ 240VAC, 2.5A, 50/60Hz DC: 134 ~ 370VDC, 2.5A |
| | Power Protection | SCP (Short Circuit Protection) OVP (Over Voltage Protection) |
| Power Consumption | 45W | |
| Operating Temperature | -10°C ~ +55°C (14°F ~ 131°F) (with W.T. HDD) | |
| Storage Temperature | -20°C ~ +80°C (-4°F ~ +176°F) | |
| Humidity | 10% ~ 90%, non-condensing | |
| Dimensions | 427 mm (16.81") (W) x 301 mm (11.85") (D) x 44 mm (1.73") (H) | |
| Weight (net/gross) | 5.02 kg (11.07 lb)/ 6.02 kg (13.27 lb) | |
| Certification | IEC 61850-3, IEEE 1613, CE | |

Ordering Information

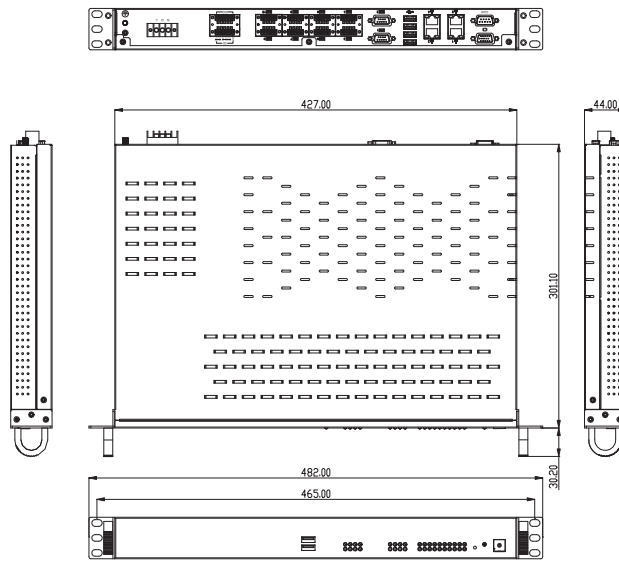
| | |
|------------------------------------|---|
| IPC122-833-FL (P/N: E26G122100) | IEC61850-3 and IEEE1613 certified 1U fanless barebone system with Intel® Atom™ processor N2800, multiple LAN and multiple COM |
|------------------------------------|---|

*Specifications and certifications are based on options and may vary.

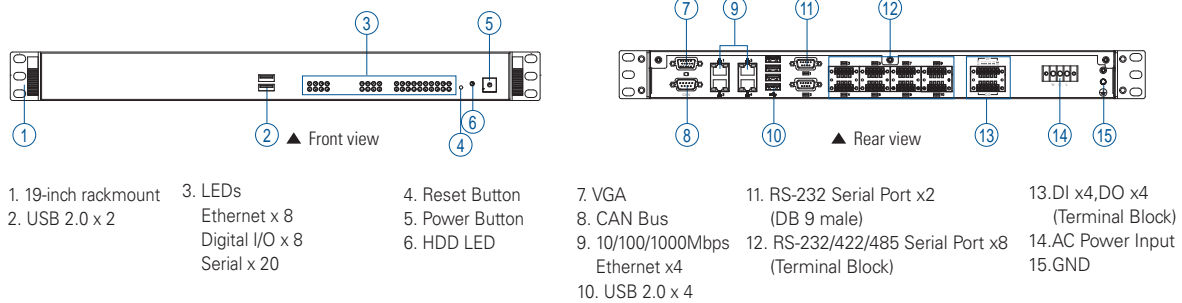
Packing List

- 1 x IPC122-833-FL unit
- 1 x utility CD
- 1 x screw pack
- 4 x Foot pad
- 2 x thermal pad for DRAM
- 2 x Rack mount handle
- 2 x Rack mount Ear
- 1 x HDD Mylar
- 8 x 5-Pin Phoenix connector
- 2 x 6-Pin Phoenix connector

Dimensions



Front & Rear Metal Panel I/O Layout



- | | | | | | | | | | | | | | |
|----------------------|---|-----------------|-----------------|------------|--------|------------|-----------------------------------|-----------------|--|---|--------------------------------------|--------------------|---------|
| 1. 19-inch rackmount | 3. LEDs Ethernet x 8 Digital I/O x 8 Serial x 20 | 4. Reset Button | 5. Power Button | 6. HDD LED | 7. VGA | 8. CAN Bus | 9. 10/100/1000Mbps Ethernet x4 | 10. USB 2.0 x 4 | 11. RS-232 Serial Port x2 (DB 9 male) | 12. RS-232/422/485 Serial Port x8 (Terminal Block) | 13. DI x4, DO x4 (Terminal Block) | 14. AC Power Input | 15. GND |
|----------------------|---|-----------------|-----------------|------------|--------|------------|-----------------------------------|-----------------|--|---|--------------------------------------|--------------------|---------|

Overview

Embedded
Systems

Embedded
Systems for
Transportation

Embedded
Field
Controllers

Industrial
Firewall

Digital Signage
Solutions

Embedded
MicroBoxes

7
Industrial
Barebone
Systems

Industrial
Chassis

Backplanes

Power
Supplies

Peripherals &
Accessories

