

## PosMaster TMS 확장형 IPC

품 명 : PosMaster TMS 확장형 IPC(with OS,PLC,HMI S/W)

품목 Code : PMTMSE IPC ETBR 100

일반 사양 :

Slot for a bus unit with 5 PCI/PCIe slots  
 Insert for 1 slide-in compact drive and 2 slide-in drives  
 Insert for 2 interface options  
 SDL/DVI/Monitor and Display Port interfaces  
 Insert for monitor/panel option  
 CFast slot

상세사양 :

CPU board Intel Celeron G3900E

<b>CPU</b>	Intel Celeron G3900E (2.4GHz Active, 1.9GHz Passive)
<b>Memory</b>	8GB (SO-DIMM DDR4)
<b>NVSRAM</b>	2MB (Static RAM)
<b>Storage</b>	128GB (SSD MLC)
<b>PCI Slot</b>	4 PCI, 1 PCI Express(x8)

### CPU Data

<b>Model number</b>	<b>PMTMSE IPC-ETBR-100</b>
<b>Certifications</b>	
CE	Yes
UL	cULus E115267 Industrial control equipment
EAC	Product family certification
<b>Controller</b>	
<b>Bootloader</b>	Embedded AMI BIOS
<b>Processor</b>	
Type	Intel Celeron G3900E
Clock frequency	2400 MHz

Number of cores	2
Architecture	14 nm
Thermal design power (TDP)	35 W
Intel Smart Cache	2 MB
External bus	DMI3, 8 GT/s
Intel 64 architecture	Yes
Intel Turbo Boost Technology	No
Intel Hyper-Threading Technology	No
Intel vPro Technology	No
Intel Virtualization Technology (VT-x)	Yes
Intel Virtualization Technology for Directed I/O (VT-d)	Yes
Enhanced Intel SpeedStep Technology	Yes
<b>Chipset</b>	Intel HM170
Trusted Platform Module	TPM 2.0
<b>Real-time clock</b>	
Accuracy	At 25°C: typ. 12 ppm (1 second) per day
Battery-backed	Yes
<b>Memory slot</b>	
Number of memory channels	2
Type	DDR4
Memory size	Max. 32 GB
Max. memory bandwidth	34.1 GB/s
<b>Graphics</b>	
Controller	Intel HD Graphics 510
Max. dynamic graphics frequency	950 MHz
Color depth	Max. 32-bit
DirectX support	12
OpenGL support	4.4
Resolution	
DVI	Resolution up to 1920 x 1200 (WUXGA)
RGB	350 MHz RAMDAC, resolution up to 2048 x 1536 @ 75 Hz (QXGA)
DisplayPort	Version 1.2, resolution up to 4K
<b>Mass memory management</b>	4x SATA
<b>Power management</b>	ACPI 5.0 with battery support
<b>Operation conditions</b>	
Pollution degree per EN 61131-2	Pollution degree 2

## IPC General Data

<b>Model number</b>	<b>PMPLC-IPC-ETBR-100</b>
Certifications	
CE	Yes
UL	cULus E115267 Industrial control equipment
GOST-R	Yes
<b>Controller</b>	

loader	BIOS
Real-time clock Battery-backed	Yes
Power failure logic	
Controller	MTCX
Buffer time	10 ms
<b>Memory</b>	
Type	Depends on the CPU board being used
Memory size	Depends on the CPU board being used
Graphics	
Controller	Depends on the CPU board being used
<b>Interfaces</b>	
COM1	
Type	RS232, modem-capable, not electrically isolated
Design	9-pin, male, DSUB connector
UART	16550-compatible, 16-byte FIFO
Max. baud rate	115 kbit/s
USB	
Quantity	5
Type	4x USB 3.0 (top), 1x USB 2.0 (front)
Design	Type A
Transfer rate	Low speed (1.5 Mbit/s), full speed (12 Mbit/s), high speed (480 Mbit/s), Super Speed (5 Gbit/s)
Current-carrying capacity	Max. 1 A per connection
Ethernet	
Quantity	2
Design	Shielded RJ45
Transfer rate	10/100/1000 Mbit/s
Max. baud rate	1 Gbit/s
Panel/Monitor interface	
Design	DVI-I
Type	SDL/DVI/Monitor
<b>Inserts</b>	
PCI/PCIe slots	
Quantity	5 PCI slots or 4 PCI slots and 1 PCIe slot or 2 PCI slots and 3 PCIe slots or 5 PCIe slots
Slide-in drives	
Quantity	2
Type	Depends on the CPU board being used
Interface option	2
Monitor/Panel option	1
Add-on UPS slot	Yes
Insert for fan kit	Yes
<b>Electrical characteristics</b>	
Nominal voltage	24 VDC $\pm$ 25%, SELV
Nominal current	Max. 5.5 A
Inrush current	Max. 60 A for <300 $\mu$ s
Overvoltage category per EN 61131-2	II
Electrical isolation	Yes

Operating conditions	
Pollution degree per EN 61131-2	Pollution degree 2
Degree of protection per EN 60529	IP20

**DIMENSION :**

