



INDUSTRIAL DISPLAY SYSTEM

PC600-MTL-1E

PC Module with 15th Intel® Core™ Processor, 1x DP, 2x LAN, 3x USB, 1x Universal I/O Bracket, 1x PCIe



Features

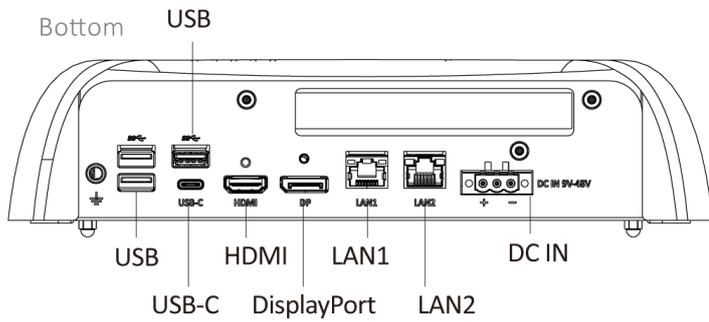
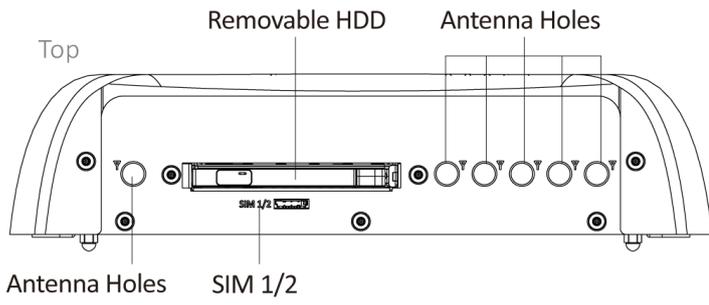
- Intel® Core™ Ultra 7 processor 155U 12M Cache, up to 4.80 GHz
- 1x DDR5 5600MT/s SODIMM. max up to 32GB
- 1x Hotswap 2.5" SATA HDD Bay
- 1x Dual Nano SIM socket
- 2x LAN, 1x DisplayPort, 1x Dual Channel 24 bit LVDS
- 6x RS-232/422/485 (2x internal), 3x USB 3.2 Gen 1, 1x USB-C 3.2 Gen 2
- 8x DI + 8x DO with isolation
- 9 to 48VDC wide range power input
- 0°C to 70°C extended operating temperature

Specifications

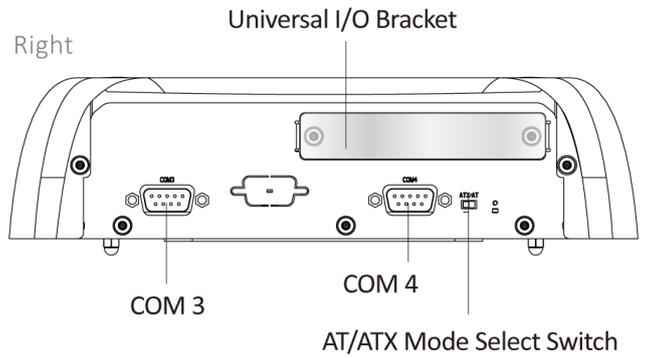
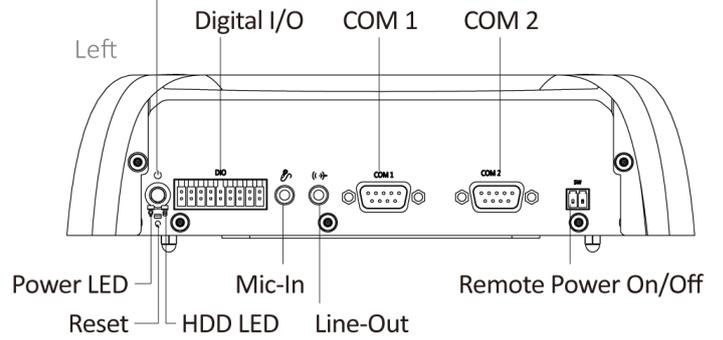
System	
Processor	Intel® Core™ Ultra 7 processor 155U 12M Cache, up to 4.80 GHz
System Chipset	SoC integrated
LAN Chipset	GbE1: Intel® I210 (Support Wake-on-LAN and PXE) 2.5 GbE2: Intel® I225 (Support Wake-on-LAN and PXE)
Audio Codec	Realtek ALC888S
System Memory	1x DDR5 5600MHz SODIMM. Max. up to 32GB
BIOS	AMI 64Mbit SPI BIOS
TPM	TPM 2.0
Watchdog	Software Programmable Supports 1~255 sec. System Reset
Display	
DisplayPort	1x DisplayPort 1.2 (4096 x 2160@60Hz)
HDMI	1x HDMI 2.0b (4096 x 2160@60Hz)
LVDS	1x Dual Channel 24 bit LVDS
Storage	
SSD/HDD	1 x Hotswap 2.5" SATA HDD Bay Support RAID 0, 1 1x M.2 M key 2280 NVMe 2x M.2 B key 2242 NVMe
SIM Socket	1x Dual Nano SIM socket
Expansion	
PCI Express	1x PCIe x4 (1-lane)
I/O	
COM	4x RS-232/422/485 2x RS-232/422/485 (internal)
USB	3x USB 3.2 Gen 1 (5 Gbps) 1x USB-C 3.2 Gen 2
LAN	2x RJ45
Audio	1x Mic-in, 1x Line-out
DIO	8 in / 8 out (Isolated)
CAN	2x CAN 2.0 A/B 2-pin Header (Internal)
Universal I/O Bracket	1x Universal I/O Bracket (By mini PCIe interface)
Others	6x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off
Operating System	
Windows	Windows 10, Windows 11
Linux	Linux kernel 5.X
Power	
Power Mode	AT, ATX
Power Supply Voltage	9~48VDC
Power Ignition Sensing	Power Ignition Management (by Optional Module)
Power Connector	3-pin Terminal Block
Power Adapter	Optional AC/DC 12V/5A, 60W

Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection
Environment	
Operating Temperature	0°C to 70°C
Storage Temperature	-40°C to 85°C
Relative Humidity	95% @ 60° C (non-condensing), Non-operating
Certification	CE, FCC Class A
Vibration	IEC60068-2-64:2008 With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis) Designed to comply with MIL-STD-810G Method 514.7 Procedure I
Shock	IEC60068-2-27:2008 With SSD: 50G half-sin 11ms Designed to comply with MIL-STD-810G Method 516.7 Procedure I
Physical	
Dimensions	253 (W) x 225 (D) x 64 (H) mm
Weights	1.86Kg
Construction	Extruded Aluminum with Heavy Duty Metal
Mounting Options	VESA Mounting Holes 75 x 75mm, 100 x 100mm

External I/O Mechanical Layout

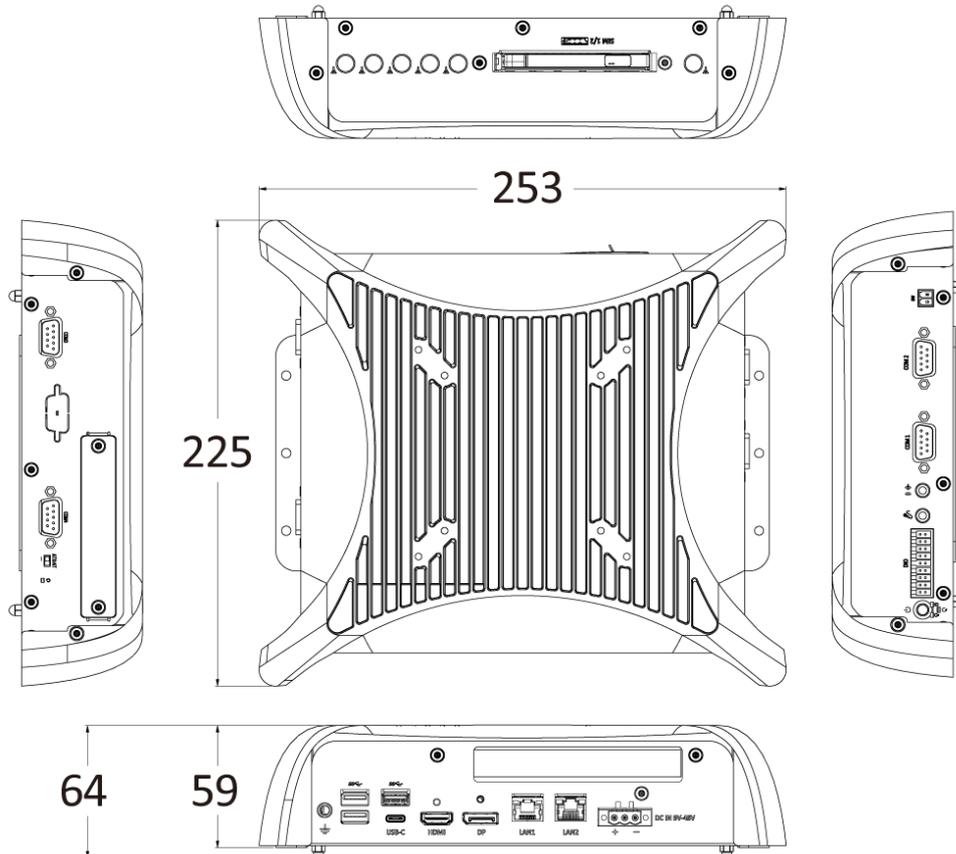


ATX Power On/Off Switch



Dimension

Unit: mm



Available Models

Model No.	Description
PC600-MTL-1E	PC Module for Industrial Display System with 15th Intel® Core™ Processor, 1x DP, 2x LAN, 3x USB, 1x Universal I/O Bracket, 1x PCIe

Optional Accessories

Model No.	Description
1-E09A06008	Adapter AC/DC 12V 5A 60W with 3pin Terminal Block Plug 5.0mm Pitch
1-TPCD00005	Power Cord, 3-pin US Type, 180cm
1-TPCD00002	Power Cord, European Type
1-TPCD00001	Power Cord, 3-pin UK Type, 180cm

Packing List

- 1x PC600-MTL-1E PC Module
- 1x Screw Pack

Compliances and Standards

Shock	IEC60068-2-27:2008 With SSD: 50G half-sin 11ms Designed to comply with MIL-STD-810G Method 516.7 Procedure I IEC60068-2-27:2008 Designed to comply with MIL-STD-810G Method 516.7 Procedure I
Vibration	IEC60068-2-64:2008 With SSD: 5 Grms (5 - 500 Hz, 0.5 hr/axis) Designed to comply with MIL-STD-810G Method 514.7 Procedure I IEC60068-2-64:2008 Designed to comply with MIL-STD-810G Method 514.7 Procedure I
Operating Temperature	0°C to 70°C IEC60068-2-1:2007 (Cold test procedure) IEC60068-2-2:2007 (Dry heat test procedure) IEC60068-2-3:2007 (Damp heat, steady state, test procedure) IEC60068-2-14:2009 (Wide temperature range thermal shock)
EMI	<ul style="list-style-type: none"> • FCC Class A (47 CFR part 15.109 and part 15.107) • CE • ICES-003 • UKCA