



### 特点:

- 全屏电阻触摸屏设计
- 模块化设计 12.1~21.5"可选,支持方屏/宽屏
- 前面板满足 IP65 要求
- 前面板集成 USB Type-A 和信号指示灯
- 支持 Intel® 6~9th Gen Core / Pentium/ Celeron Desktop CPU, TDP 35W
- 搭配 Intel® Q170 芯片组
- 2 个 Intel 千兆网络接口和 4 个 DB9 串口
- M.2 和 2.5 寸双硬盘位存储支持
- 4 路显示输出 VGA,DVI-D,DP++和内部 LVDS,最高支持 4K@60Hz 分辨率
- 9~36V 直流供电 (可选 12V)
- 嵌入式/VESA 安装



远程管理



状态监控



远程运维



安全控制

## 产品规格

Model	PL121RQ-E7L	PL150RQ-E7L	PL156RQ-E7L	PL170RQ-E7L	PL185RQ-E7L	PL191RQ-E7L	PL215RQ-E7L	
LCD	Display Size	12.1"	15.0"	15.6"	17.0"	18.5"	19.1"	21.5"
	Display Type	XGA TFT-LCD	XGA TFT-LCD	FHD TFT-LCD	SXGA TFT-LCD	WXGA TFT-LCD	WXGA TFT-LCD	FHD TFT-LCD
	Max.Resolution	1024 x 768	1024 x 768	1920 x 1080	1280 x 1024	1366 x 768	1440 x 900	1920 x 1080
	Luminance	350 cd/m2	300 cd/m2	350 cd/m2	250 cd/m2	250 cd/m2	250 cd/m2	250 cd/m2
	Aspect Ratio	4:3	4:3	16:9	5:4	16:9	16:10	16:9
	Viewing Angle	80/80/80/80°	88/88/88/88°	89/89/89/89°	85/85/80/80°	89/89/89/89°	85/85/80/80°	89/89/89/89°
	Max. Color	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
	Backlight Lifetime	30,000 hr	70,000 hr	50,000 hr	30,000 hr	30,000 hr	30,000 hr	50,000 hr
	Contrast Ratio	800:1	2000:1	800:1	1000:1	1000:1	1000:1	1000:1
Touchscreen	Touch Type	5-wire resistive touch						
	Controller	USB signal						
	Input	finger/touch pen						
	Light Transmission	≥78%						
	Hardness	≥3H						
Processor System	CPU	Intel® 6/7/8/9th Generation Core / Pentium/ Celeron Desktop CPU						
	TDP	35W						
	Socket	LGA1151						
	Chipset	Q170						
Memory	BIOS	AMI UEFI BIOS (Support Watchdog Timer)						
	Socket	2 * Non-ECC SO-DIMM Slot, Dual Channel DDR4 up to 2133MHz						
Graphics	Max Capacity	64GB, Single Max. 32GB						
	Controller	Intel® HD Graphics						
Ethernet	Controller	1 * Intel i210-AT GbE LAN Chip (10/100/1000 Mbps) 1 * Intel i219-LM/V GbE LAN Chip (10/100/1000 Mbps)						
	Storage	1 * SATA3.0, Quick release 2.5" hard disk bays (T≤7mm) 1 * SATA3.0, Internal 2.5" hard disk bays (T≤9mm, Optional) Support RAID 0, 1						
Expansion Slots	M.2	1 * M.2 Key-M (PCIe x4 Gen 3 + SATA3.0, NVMe/SATA SSD Auto Detect, 2242/2260/2280)						
	MXM/aDoor	1 * APQ MXM (Optional MXM 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card) 1 * aDoor Expansion Slot						
	Mini PCIe	1 * Mini PCIe (PCIe x1 Gen 2 + USB 2.0, with 1 * SIM Card)						
Front I/O	M.2	1 * M.2 Key-B (PCIe x1 Gen 2 + USB3.0, with 1 * SIM Card, 3042/3052)						
	Ethernet	2 * RJ45						
	USB	6 * USB3.0 (Type-A, 5Gbps)						
	Display	1 * DVI-D: max resolution up to 1920*1200 @ 60Hz 1 * VGA (DB15/F): max resolution up to 1920*1200 @ 60Hz 1 * DP: max resolution up to 4096*2160 @ 60Hz						
	Audio	2 * 3.5mm Jack (Line-Out + MIC)						
	Serial	2 * RS232/422/485 (COM1/2, DB9/M, Full Lanes, BIOS Switch) 2 * RS232 (COM3/4, DB9/M)						
Rear I/O	Button	1 * Power Button + Power LED 1 * System Reset Button (Hold down 0.2 to 1s to restart, and hold down 3s to clear CMOS)						
	Antenna	4 * Antenna hole						
Internal I/O	SIM	2 * Nano SIM card slots						
	USB	2 * USB2.0 (wafer)						
	LCD	1 * LVDS (wafer): max resolution up to 1920*1200 @ 60Hz						
	TFront Panel	1 * TF_Panel (3 * USB 2.0 + FPANEL, wafer)						
	Front Panel	1 * Front Panel (PWR + RST + LED, wafer)						
	Speaker	1 * Speaker (2-W (per channel)/8-Ω Loads, wafer)						
	Serial	2 * RS232 (COM5/6, wafer)						
	GPIO	1 * 16 bits DIO (8xDI and 8xDO, wafer)						
	LPC	1 * LPC (wafer)						
	SATA	2 * SATA 7P Connector						
	SATA Power	2 * SATA Power (SATA_PWR1/2, wafer)						
Power Supply	FAN	1 * CPU FAN (wafer) 2 * SYS FAN (wafer)						
	Type	DC, AT/ATX						
	Power Input Voltage	9 ~ 36VDC, P≤240W						
	Connector	1 * 4Pin Connector, P=5.00/5.08						
OS Support	RTC Battery	CR2032 Coin Cell						
	Windows	6/7th Core™: Windows 7/10/11 8/9th Core™: Windows 10/11						
	Linux	Linux						

<b>Watchdog</b>	Output	System Reset						
	Interval	Programmable via Software from 1 to 255 sec						
<b>Mechanical</b>	Enclosure Material	Radiator: Aluminum alloy, Box: SGCC						
	Mounting	VESA, embedded						
	Dimensions (L * W * H, Unit: mm)	321.9*260.5*95.7	380.1*304.1*95.7	420.3*269.7*95.7	414*346.5*95.7	485.7*306.3*95.7	484.6*332.5*95.7	550*344*95.7
	Weight	Net: 6.6 kg Total: 8.1 kg	Net: 8.0 kg Total: 9.5 kg	Net: 7.9 kg Total: 9.6 kg	Net: 8.8 kg Total: 10.3 kg	Net: 8.7 kg Total: 10.2 kg	Net: 10.0 kg Total: 11.5 kg	Net: 9.6 kg Total: 11.1 kg
<b>Environment</b>	Heat Dissipation System	Passive heat dissipation						
	Operating Temperature	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C	0~50°C	0~50°C
	Storage Temperature	-20~60°C	-20~70°C	-30~80°C	-30~70°C	-30~70°C	-20~60°C	-20~60°C
	Relative Humidity	5 to 95% RH (non-condensing)						
	Vibration During Operation	With SSD: IEC 60068-2-64 (1Grms@5~500Hz, random, 1hr/axis)						
	Shock During Operation	With SSD: IEC 60068-2-27 (15G, half sine, 11ms)						

## 产品尺寸

A	System Dimension						Panel Mount				
	X1	Y1	Z1	X2	Y2	Z2	X3	Y3	Z3	F1	F2
12.1"	321.9	260.5	95.7	307	245.6	28	309.8	248.4	8	7.1	8.5
15.0"	380.1	304.1	95.7	364.2	288.2	28	367	291	8	7.1	8.5
15.6"	420.3	269.7	95.7	404.5	253.8	28	407.3	256.6	8	7.1	8.5
17.0"	414	346.5	95.7	398.2	330.6	28	401	333.4	8	7.1	8.5
18.5"	485.7	306.3	95.7	469.8	290.4	28	472.6	293.2	8	7.1	8.5
19.1"	484.6	332.5	95.7	468.7	316.6	28	471.5	319.4	8	7.1	8.5
21.5"	550	344	95.7	538.7	327.7	28	539.5	330.9	8	7.1	8.5

## 产品 I/O

2.5" Disk, DC IN, LAN\*2, USB 3.0\*4, DP, USB 3.0\*2, DVI-D, Audio, COM4/3, COM2/1, Reset, PWR/LED, GND, aDoor/MXM

Nano SIM