



### Features:

- Full-screen capacitive touch screen design
- Supports Phytium Tengrui D series high-performance desktop CPUs
- Modular design, 12.1"~27" optional, supports square/wide screens
- Front panel meets IP65 requirements
- Front panel integrates USB Type-A and signal indicators
- 12~28V DC
- PWM fan active cooling
- Embedded / VESA mounting

## Product Specification

Model	PL121CQ-D200SA2	PL150CQ-D200SA2	PL156CQ-D200SA2	PL170CQ-D200SA2	PL185CQ-D200SA2	PL191CQ-D200SA2	PL215CQ-D200SA2	PL238CQ-D200SA2	PL270CQ-D200SA2	
<b>LCD Panel</b>	Size	12.1"	15.0"	15.6"	17.0"	18.5"	19.1"	21.5"	23.8"	27"
	Resolution	1024 x 768	1024 x 768	1920 x 1080	1280 x 1024	1366 x 768	1440 x 900	1920 x 1080	1920 x 1080	1920 x 1080
	Brightness	350 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>	350 cd/m <sup>2</sup>	250 cd/m <sup>2</sup>	300 cd/m <sup>2</sup>				
	Aspect Ratio	4:3	4:3	16:9	5:4	16:9	16:10	16:9	16:9	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°	89/89/89/89°	89/89/89/89°
	Max. Display Colors	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
	Backlight Service Life	30,000 h	70,000 h	50,000 h	30,000 h	30,000 h	30,000 h	50,000 h	30,000 h	30,000 小时
	Contrast Ratio	800:1	2000:1	800:1	1000:1	1000:1	1000:1	1000:1	1000:1	3000:1
<b>Touch Screen</b>	Touch Type	Capacitive touch								
	Control Signal	USB2.0								
	Input Method	supports finger / capacitive pen								
	Transmittance	≥85%								
	Surface Hardness	≥6H								
<b>Processor System</b>	CPU	Supports Phytium Tengrui D series high-performance desktop processor D2000, 8 cores, 2.3GHz								
	TDP	25W								
<b>Memory</b>	Socket	2 * SO-DIMM Slot, Dual Channel DDR4-3200MHz								
	Capacity	64GB, Single Max 32GB								
<b>Ethernet</b>	Controller	2 * YT8531-SC Gigabit Ethernet Chips								
<b>Storage</b>	M.2	1 * M.2 Key-M Slot (PCIe Gen 3 x4 + SATA 3.0, NVMe/SATA SSD Auto Detect, 2280)								
	mSATA	1 * mSATA Slot (SATA 3.0, SATA SSD, Shared slot with Mini PCIe)								
<b>Expansion Slots</b>	M.2	1 * M.2 Key-E Slot (PCIe Gen 3 x1 + USB 2.0, 2230)								
	Mini PCIe	1 * Mini PCIe Slot (USB 2.0, Shared slot with Mini PCIe, With 1 * SIM Card Slot)								
<b>Front Panel Interface</b>	USB	1 * USB 2.0 (Type-A)								
	LED	1 * Power status LED 1 * Hard drive status LED								
<b>Front I/O</b>	Ethernet	2 * RJ45								
	USB	4 * USB 5Gbps (Type-A)								
	Audio	1 * 3.5mm Jack (Line-out + MIC)								
	COM	1 * RS232 DB9/M (COM1)								
	Display	1 * HDMI: max resolution up to 4096*2160@30Hz								
	Buttons	1 * Power switch button + Power indicator								
	Power	1 * Power input socket								
<b>Internal I/O</b>	COM	3 * RS232 (COM2/3/4)								
	Audio	1 * Audio amplifier pin header (left & right channels, 2W/8Ω per channel)								
	GPIO	1 × 8-channel digital input/output header (default: 4 inputs, 4 outputs)								
	SIM	1 * SIM Card Slot								
<b>Power Supply</b>	Type	DC 12~28V								
	Power Input Voltage	1 * 4Pin 5.08mm Connector								
	RTC Battery	CR2032 Coin Cell								
<b>OS Support</b>	Linux	Kylin KOS, UnionTech UOS								
<b>Watchdog</b>	Output	System Reset								
	Interval	1 ~ 255 seconds,								
<b>Structure</b>	Enclosure Material	Aluminum Alloy + Galvanized Steel								
	Dimensions	321.9*260.5*79mm	380.1*304.1*79 mm	420.3*269.7*79 mm	414*346.5*79 mm	485.7*306.3*79 mm	484.6*332.5*79 mm	552.6*344*79 mm	586*358.4*79 mm	663.2*401.8*79 mm
	Mounting	VESA, mounting								
<b>Environment</b>	Heat Dissipation System	PWM fan active cooling								
	Operating Temperature	0 ~ 60°C	0 ~ 60°C	0 ~ 60°C	0 ~ 50°C	0 ~ 50°C	0 ~ 50°C	0 ~ 60°C	0 ~ 50°C	0 ~ 50°C
	Storage	-20 ~ 70°C	-20 ~ 70°C	-20 ~ 70°C	-20 ~ 60°C					

Temperature	
Relative Humidity	10 ~ 90%(non-condensing)

Product Size

A	System Dimension			Panel Mount							
	X1	Y1	Z1	X2	Y2	Z2	X3	Y3	Z3	F1	F2
12.1"	321.9	260.5	79	307	245.6	28	309.8	248.4	8	7.1	8.5
15.0"	380.1	304.1	79	364.2	288.2	28	367	291	8	7.1	8.5
15.6"	420.3	269.7	79	404.5	253.8	28	407.3	256.6	8	7.1	8.5
17.0"	414	346.5	79	398.2	330.6	28	401	333.4	8	7.1	8.5
18.5"	485.7	306.3	79	469.8	290.4	28	472.6	293.2	8	7.1	8.5
19.1"	484.6	332.5	79	468.7	316.6	28	471.5	319.4	8	7.1	8.5
21.5"	552.6	344	79	536.8	328.2	28	539.5	330.9	8	7.1	8.5

A	System Dimension			Panel Mount							
	X1	Y1	Z1	X2	Y2	Z2	X3	Y3	Z3	F1	F2
23.8"	586	358.4	79	572	344.4	28	574.8	347.1	6	5	6
27.0"	663.2	401.8	79	649.2	387.8	28	651.9	390.5	6	5	6

Product Interface

