



特点:

- 模块化设计 15~27"可选,支持方屏/宽屏
- 十点触摸电容屏
- 全塑模具中框,前面板 IP65 设计
- 支持 Intel® 12/13th Gen Core / Pentium/ Celeron Desktop CPU, TDP 35W, LGA1700
- 搭配 Intel® Q670 芯片组
- 2 个 Intel 网络接口 (1*1GbE & 1*2.5GbE)
- 3 路显示输出 HDMI, DP++和内部 LVDS, 最高支持 4K@60Hz 分辨率
- 丰富的 USB、串口扩展接口和 PCIe、mini PCIe、M.2 扩展插槽
- 无风扇被动式散热



远程管理



状态监控



远程运维



安全控制

产品规格

Model	PH150CL-E7L	PH156CL-E7L	PH170CL-E7L	PH185CL-E7L	PH190CL-E7L	PH215CL-E7L	PH238CL-E7L	PH270CL-E7L	
LCD	Display Size	15.0"	15.6"	17.0"	18.5"	19.0"	21.5"	23.8"	27"
	Display Type	XGA TFT-LCD	WXGA TFT-LCD	SXGA TFT-LCD	WXGA TFT-LCD	SXGA TFT-LCD	FHD TFT-LCD	FHD TFT-LCD	FHD TFT-LCD
	Max.Resolution	1024 x 768	1920 x 1080	1280 x 1024	1366 x 768	1280 x 1024	1920 x 1080	1920 x 1080	1920 x 1080
	Aspect Ratio	4:3	16:9	5:4	16:9	5:4	16:9	16:9	16:9
	Viewing Angle	89/89/89/89	85/85/85/85	85/85/80/80	85/85/80/80	85/85/80/80	89/89/89/89	89/89/89/89	89/89/89/89
	Luminance	350 cd/m2	220 cd/m2	250 cd/m2	250 cd/m2	250 cd/m2	250 cd/m2	250 cd/m2	300 cd/m2
	Contrast Ratio	1000:1	800:1	1000:1	1000:1	1000:1	1000:1	1000:1	3000:1
	Backlight Lifetime	50,000 Hrs	50,000 Hrs	50,000 Hrs	30,000 Hrs	30,000 Hrs	30,000 Hrs	30,000 Hrs	30,000 Hrs
Touchscreen	Touch Type	Projected Capacitive Touch							
	Controller	USB Signal							
	Input	Finger/Capacitive Touch Pen							
	Light Transmission	≥85%							
	Hardness	≥6H							
Processor System	CPU	Intel® 12/13th Generation Core / Pentium/ Celeron Desktop CPU							
	TDP	35W							
	Socket	LGA1700							
	Chipset	Q670							
	BIOS	AMI 256 Mbit SPI							
Memory	Socket	2 * Non-ECC SO-DIMM Slot, Dual Channel DDR4 up to 3200MHz							
	Max Capacity	64GB, Single Max. 32GB							
Graphics	Controller	Intel® UHD Graphics							
Ethernet	Controller	1 * Intel i219-LM 1GbE LAN Chip (LAN1, 10/100/1000 Mbps, RJ45) 1 * Intel i225-V 2.5GbE LAN Chip (LAN2, 10/100/1000/2500 Mbps, RJ45)							
	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	aDoor	1 * aDoor Bus (Optional 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card)							
	Mini PCIe	2 * Mini PCIe (PCIe x1 Gen 3 + USB 2.0, with 1 * SIM Card)							
	M.2	1 * M.2 Key-E (PCIe x1 Gen 3 + USB 2.0, 2230)							
Front I/O	Ethernet	2 * RJ45							
	USB	2 * USB3.2 Gen2x1 (Type-A, 10Gbps) 6 * USB3.2 Gen 1x1 (Type-A, 5Gbps)							
	Display	1 * HDMI1.4b: max resolution up to 4096*2160 @ 30Hz 1 * DP1.4a: max resolution up to 4096*2160 @ 60Hz							
	Audio	2 * 3.5mm Jack (Line-Out + MIC)							
	Serial	2 * RS232/485/422 (COM1/2, DB9/M, Full Lanes, BIOS Switch) 2 * RS232 (COM3/4, DB9/M, Full Lanes)							
	Button	1 * Power Button + Power LED 1 * AT/ATX Button 1 * OS Recover Button 1 * System Reset Button							
Rear I/O	Antenna	4 * Antenna hole							
	SIM	2 * Nano SIM card slots							
Internal I/O	USB	6 * USB2.0 (wafer)							
	LCD	1 * LVDS (wafer): LVDS Resolution up to 1920*1200 @ 60Hz							
	Front Panel	1 * FPanel (PWR+RST+LED, wafer)							
	Audio	1 * Audio (Header) 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	3 * SATA 7P Connector, up to 600MB/s							
	SATA Power	3 * SATA Power (wafer)							
	FAN	1 * CPU FAN (wafer) 2 * SYS FAN (KF2510-4A)							

Power Supply	Type	DC, AT/ATX							
	Power Input	9~36VDC, P≤240W							
	Voltage	18~60VDC, P≤400W							
	Connector	1 * 4Pin Connector, P=5.00/5.08							
OS Support	RTC Battery	CR2032 Coin Cell							
	Windows	Windows 10/11							
Watchdog	Linux	Linux							
	Output	System Reset							
Mechanical	Interval	Programmable 1 ~ 255 sec							
	Enclosure Material	Radiator: Aluminum alloy, Box: SGCC							
Mechanical	Mounting	VESA, Embedded							
	Dimensions (L * W * H, Unit: mm)	359*283*89.5	401.5*250.7*86.4	393*325.6*89.5	464.9*285.5*89.4	431*355.8*89.5	532.3*323.7*89.4	585.4*357.7*89.4	662.3*400.9*89.4
	Weight	Net: 6.9Kg	Net: 7.2Kg	Net: 7.9Kg	Net: 8Kg	Net: 8.8Kg	Net: 9Kg	Net: 10.6Kg	Net: 11.7Kg
		Total: 8.4Kg	Total: 8.7Kg	Total: 9.4Kg	Total: 9.7Kg	Total: 10.5Kg	Total: 11Kg	Total: 12.6Kg	Total: 13.7Kg
Environment	Heat Dissipation System	Fanless Passive Cooling							
	Operating Temperature	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C
	Storage Temperature	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C	-20~60°C
	Relative Humidity	10 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

Technical drawings showing front, side, and rear views of the device with dimensions X1, Y1, X2, Y2, X3, Y3, X4, Y4, X5, Y5, Z1, Z2, and F1. The drawings illustrate the device's form factor and mounting options, including VESA and embedded panel mounting. Key features include a fanless passive cooling system, a radiator, and a coin cell battery. The device is designed for industrial edge computing applications.

A	System Dimension						Panel Mount					
	X1	Y1	Z1	X2	Y2	Z2	X3	Y3	X4	Y4	F1	
15.0"	359	283	89.5	371.2	295.1	21.8	382.2	306.1	349.7	273.7	6.5	
15.6"	401.5	250.7	86.4	413.9	263.1	18.7	424.9	274.1	389.1	238.3	6	
17.0"	393	325.6	89.5	405.2	337.8	21.8	416.2	348.8	383	315.5	6	
18.5"	464.9	285.5	89.4	476.9	297.5	21.7	487.9	308.5	454.3	274.9	6	
19.0"	431	355.8	89.5	443.2	367.9	21.8	454.2	378.9	420.5	345.2	6	

A	System Dimension						Panel Mount					
	X1	Y1	Z1	X2	Y2	Z2	X3	Y3	X4	Y4	X5	F1
21.5"	532.3	323.7	89.4	130	335.8	21.7	544.4	346.8	555.4	313.1	521.6	6
23.8"	585.4	357.7	89.4	130	369.8	21.7	597.5	380.8	608.5	347.1	574.8	6
27.0"	662.3	400.9	89.4	190	413.2	21.7	674.6	424.2	685.6	390.5	651.9	6

产品 I/O

