apq

阿普奇边缘计算,助力工业更智慧

Features:

- Full-screen capacitive touchscreen design
- Modular design 10.1~27" selectable, supports square/wide Screen
- Front panel meets IP65 requirements
- Front panel integrates USB Type-A and signal indicator lights
- Utilizes Intel® 11th-U mobile platform CPU
- Integrates dual Intel® Gigabit network cards
- Supports dual hard drive storage, with 2.5" hard drives featuring a pull-out design
- Supports APQ aDoor module expansion
- Supports WiFi/4G wireless expansion
- Fanless design with detachable heatsink
- Embedded/VESA mounting
- 12~28V DC power supply

Remote Management　　Status Monitoring　　Remote Operations and Maintenance　　Security Control

Product Specifications

Model		PL101CQ-E6	PL104CQ-E6	PL121CQ-E6	PL150CQ-E6	PL156CQ-E6	PL170CQ-E6	PL185CQ-E6	PL191CQ-E6	PL215CQ-E6	PL238CQ-E6	PL270CQ-E6
LCD	Display Size	10.1"	10.4"	12.1"	15.0"	15.6"	17.0"	18.5"	19.0"	21.5"	23.8"	27.0"
	Display Type	WXGA TFT-LCD	XGA TFT-LCD	XGA TFT-LCD	XGA TFT-LCD	FHD TFT-LCD	SXGA TFT-LCD	WXGA TFT-LCD	WXGA TFT-LCD	FHD TFT-LCD	FHD TFT-LCD	FHD TFT-LCD
	Max.Resolution	1280 x 800	1024 x 768	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
	Luminance	400 cd/m2	350 cd/m2	350 cd/m2	300 cd/m2	350 cd/m2	250 cd/m2	250 cd/m2	250 cd/m2	250 cd/m2	250 cd/m2	300 cd/m2
	Aspect Ratio	16:10	4:3	4:3	4:3	16:9	5:4	16:9	16:10	16:9	16:9	16:9
	Viewing Angle	89/89/89/89°	88/88/88/88°	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. Color	16.7M	16.2M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M	16.7M
	Backlight Lifetime	20,000 hr	50,000 hr	30,000 hr	70,000 hr	50,000 hr	30,000 hr	30,000 hr	30,000 hr	50,000 hr	30,000 hr	30,000 hr
	Contrast Ratio	800:1	1000:1	800:1	2000:1	800:1	1000:1	1000:1	1000:1	1000:1	1000:1	3000:1
Touchscreen	Touch Type	Projected Capacitive Touch										
	Controller	USB Signal										
	Input	Finger/Capacitive Touch Pen										
	Light Transmission	≥85%										
	Hardness	≥6H										
Processor System	CPU	Intel® 11th Generation Core™ i3/i5/i7 Mobile -U CPU										
	Chipset	SOC										
	BIOS	AMI EFI BIOS										
Memory	Socket	2 * DDR4-3200 MHz SO-DIMM Slot										
	Max Capacity	64GB										
Graphics	Controller	Intel® UHD Graphics/Intel® Iris® Xe Graphics (dependent on CPU type)										
Ethernet	Controller	1 * Intel® i210AT (10/100/1000/2500 Mbps, RJ45) 1 * Intel® i219 (10/100/1000 Mbps, RJ45)										
Storage	SATA	1 * SATA3.0 Connector										
	M.2	1 * M.2 Key-M (SSD, 2280, NVMe+SATA3.0)										
Expansion Slots	aDoor	2 * aDoor Expansion Slot										
	aDoor Bus	1 * aDoor Bus (16*GPIO + 4*PCIe + 1*I2C)										
	Mini PCIe	1 * Mini PCIe Slot (PCIe x1+USB 2.0, with Nano SIM Card) 1 * Mini PCIe Slot (PCIe x1+USB 2.0)										
Front I/O	USB	2 * USB3.2 Gen2x1 (Type-A) 2 * USB3.2 Gen1x1 (Type-A)										
	Ethernet	2 * RJ45										
	Display	1 * DP: up to 4096x2304@60Hz 1 * HDMI (Type-A): up to 3840x2160@24Hz										
	Serial	2 * RS232/485 (COM1/2, DB9/M, BIOS control)										
	Switch	1 * AT/ATX Mode Switch (Enable/Disable automatically power on)										
	Button	1 * Reset (hold down 0.2 to 1s to restart, 3s to clear CMOS) 1 * OS Rec (system recovery)										
	Power	1 * Power Input Connector (12~28V)										
Rear I/O	SIM	1 * Nano SIM Card Slot (Mini PCIe module provide functional support)										
	Button	1 * Power Button+Power LED 1 * PS_ON										
	Audio	1 * 3.5mm Audio Jack (LineOut+MIC, CTIA)										
Internal I/O	Front Panel	1 * Front Panel (wafer, 3x2Pin, PHD2.0)										
	FAN	1 * CPU FAN (4x1Pin, MX1.25) 1 * SYS FAN (4x1Pin, MX1.25)										
	Serial	1 * COM3/4 (5x2Pin, PHD2.0) 1 * COM5/6 (5x2Pin, PHD2.0)										
	USB	4 * USB2.0 (2*5x2Pin, PHD2.0)										
	LPC	1 * LPC (8x2Pin, PHD2.0)										
	Storage	1 * SATA3.0 7Pin Connector 1 * SATA Power										
	Audio	1 * Speaker (2-W (per channel)/8-Ω Loads, 4x1Pin, PH2.0)										
	GPIO	1 * 16bits DIO (8xDI and 8xDO, 10x2 Pin, PHD2.0)										
Power Supply	Type	DC										
	Power Input Voltage	12~28VDC										
	Connector	1 * 2Pin Power Input Connector (P=5.08mm)										
	RTC Battery	CR2032 Coin Cell										
OS Support	Windows	Windows 10										
	Linux	Linux										
Watchdog	Output	System Reset										
	Interval	Programmable 1 ~ 255 sec										
Mechanical	Enclosure Material	Radiator/Panel: Aluminium, Box/Cover: SGCC										
	Mounting	VESA, embedded										
	Dimensions (L * W * H, Unit: mm)	272.1*192.7*84	284*231.2*84	321.9*260.5*84	380.1*304.1*85	420.3*269.7*84	414*346.5*84	485.7*306.3*84	484.6*332.5*84	552.6*344*84	586*358.4*84	663.2*401.8*84

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	Weight	Net: 3.2Kg, Total:4.5Kg	Net: 3.4Kg, Total:4.7Kg	Net: 3.6Kg, Total:4.9Kg	Net: 5Kg, Total:6.6Kg	Net: 4.9Kg, Total:6.5Kg	Net: 5.7Kg, Total:7.3Kg	Net: 5.6Kg, Total:7.2Kg	Net: 6.5Kg, Total:8.1Kg	Net: 7Kg, Total:8.6Kg	Net: 8.7Kg, Total:10.7Kg	Net: 9.8Kg, Total:11.8Kg
Environment	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	0~50°C	0~60°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	-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)										

Product Dimensions

A	System Dimension			Panel Mount							
	X1	Y1	Z1	X2	Y2	Z2	X3	Y3	Z3	F1	F2
10.1"	272.1	192.7	84	260.9	181.5	28	262.5	183.1	8	6.9	7.8
10.4"	284	231.2	84	268.1	215.3	28	269.9	217.1	8	7.1	8.5
12.1"	321.9	260.5	84	307	245.6	28	309.8	248.4	8	7.1	8.5
15.0"	380.1	304.1	84	364.2	288.2	28	367	291	8	7.1	8.5
15.6"	420.3	269.7	84	404.5	253.8	28	407.3	256.6	8	7.1	8.5
17.0"	414	346.5	84	398.2	330.6	28	401	333.4	8	7.1	8.5
18.5"	485.7	306.3	84	469.8	290.4	28	472.6	293.2	8	7.1	8.5
19.1"	484.6	332.5	84	468.7	316.6	28	471.5	319.4	8	7.1	8.5
21.5"	552.6	344	84	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	84	572	344.4	28	574.8	347.1	6	5	6
27.0"	663.2	401.8	84	649.2	387.8	28	651.9	390.5	6	5	6

Product I/O

aDoor Expansion I/O
LAN*2
USB*4 Reset AT/ATX
COM1/2
GND
DC IN 12~28V
OS Recovery
DP/HDMI
2.5" Disk/aDoor

Optional camera

PWR/HDD LED
USB

SIM
Audio
aDoor Expansion I/O
PS_ON
On/Off

aDoor Expansion I/O
LAN*2
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