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 ® Elkhart Lake/Elder Lake-N low-power CPU
- Integrates dual Intel® Gigabit network cards
- Supports dual hard drive storage
- Supports APQ aDoor module expansion
- Supports WiFi/4G wireless expansion
- Fanless design
- Embedded/VESA mounting
- 12~28V DC power supply

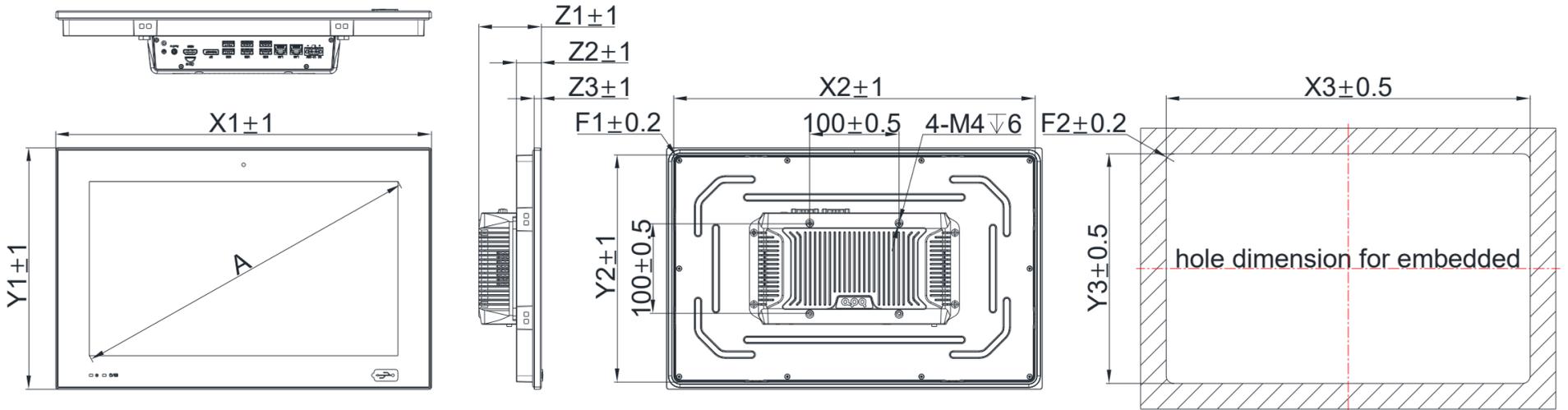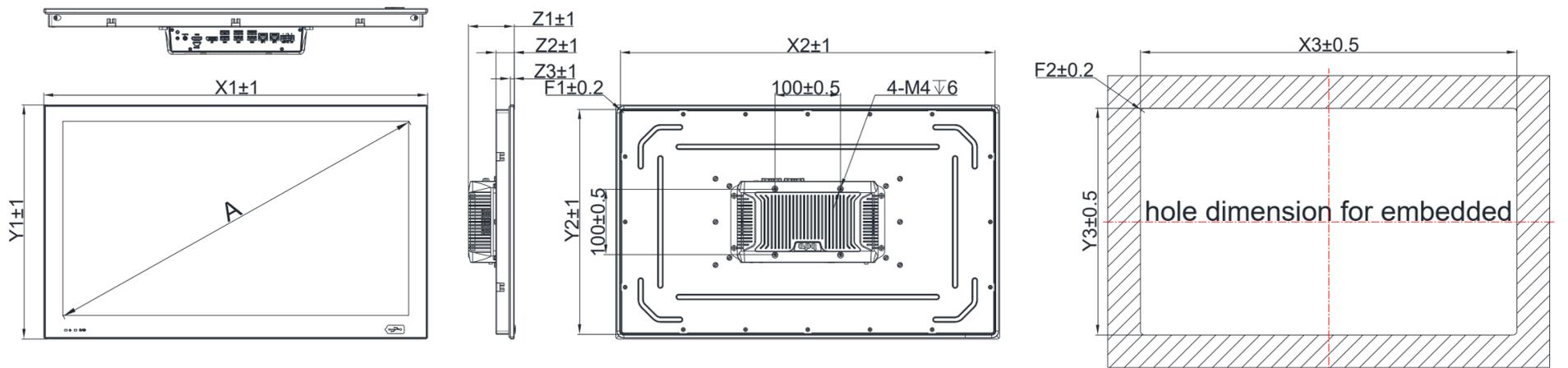Remote Management | Status Monitoring | Remote Operations and Maintenance | Security Control

Product Specifications

	Model	PL101CQ-E5S	PL104CQ-E5S	PL121CQ-E5S	PL150CQ-E5S	PL156CQ-E5S	PL170CQ-E5S	PL185CQ-E5S	PL191CQ-E5S	PL215CQ-E5S	PL238CQ -E5S	PL270CQ -E5S
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® Elkhart Lake J6412			Intel® Alder Lake N95			Intel® Alder Lake N97			Intel® Alder Lake N305	
	Base Frequency	2.00 GHz			1.7 GHz			2.0 GHz			1 GHz	
	Max Turbo Frequency	2.60 GHz			3.40 GHz			3.60 GHz			3.8GHz	
	Cache	1.5MB			6MB			6MB			6MB	
	Total Cores/Threads	4/4			4/4			4/4			8/8	
	Chipset	SOC										
	BIOS	AMI UEFI BIOS										
Memory	Socket	1 * DDR4-SODIMM, up to 3200MHz										
	Capacity	Max. 32GB										
Graphics	Controller	Intel® UHD Graphics										
Ethernet	Controller	2 * Intel® i210-AT (10/100/1000 Mbps, RJ45)										
Storage	SATA	1 * SATA3.0 Connector (2.5-inch hard disk with 15+7Pin)										
	M.2	1 * M.2 Key-M Slot (SATA SSD, 2280)										
Expansion Slots	aDoor	1 * aDoor										
	Mini PCIe	1 * Mini PCIe Slot (PCIe2.0x1+USB2.0)										
Front I/O	USB	4 * USB3.0 (Type-A) 2 * USB2.0 (Type-A)										
	Ethernet	2 * RJ45										
	Display	1 * DP++: max resolution up to 4096x2160@60Hz 1 * HDMI (Type-A): max resolution up to 2048x1080@60Hz										
	Audio	1 * 3.5mm Jack (Line-Out + MIC, CTIA)										
	SIM	1 * Nano-SIM Card slot (Mini PCIe module provides functional support)										
	Power	1 * Power Input Connector (12~28V)										
Rear I/O	Button	1 * Power Button with Power LED										
	Serial	2 * RS232/485 (COM1/2, DB9/M, BIOS control)										
Internal I/O	Front Panel	1 * Front Panel (3x2Pin, PHD2.0)										
	FAN	1 * SYS FAN (4x1Pin, MX1.25)										
	Serial	2 * COM (JCOM3/4, 5x2Pin, PHD2.0) 2 * COM (JCOM5/6, 5x2Pin, PHD2.0)										
	USB	2 * USB2.0 (F_USB2_TP, 5x2Pin, PHD2.0) 2 * USB2.0 (F_USB2_1, 5x2Pin, PHD2.0)										
	Display	1 * LVDS/eDP (default LVDS, wafer, 25x2Pin 1.00mm)										
	Audio	1 * Speaker (2-W (per channel)/8-Ω Loads, 4x1Pin, PH2.0)										
	GPIO	1 * 16bits DIO (8xDI and 8xDO, 10x2Pin, PHD2.0)										
	LPC	1 * LPC (8x2Pin, PHD2.0)										
Power Supply	Type	DC										
	Power Input Voltage	12~28VDC										
	Connector	1 * 2Pin Power Input Connector (12~28V, P= 5.08mm)										
	RTC Battery	CR2032 Coin Cell										
OS Support	Windows	Windows 7/8.1/10										
	Linux	Linux										
Watchdog	Output	System Reset										
	Interval	Programmable 1 ~ 255 sec										
Mechanical	Enclosure Material	Panel: Plastics, Radiator/Box: Aluminum, Cover: SGCC										
	Mounting	VESA, embedded										
	Dimensions (L*W*H, Unit: mm)	272.1*192.7 *70	284* 231.2 *70	321.9* 260.5*70	380.1* 304.1*70	420.3* 269.7*70	414* 346.5*70	485.7* 306.3*70	484.6* 332.5*70	552.6* 344*70	586* 358.4*70	663.2* 401.8*70
	Weight	Net: 2.9kg, Total: 5.1kg	Net: 3.0kg, Total: 5.2kg	Net: 3.2kg, Total: 5.5kg	Net: 4.6kg, Total: 7kg	Net: 4.5kg, Total: 6.9kg	Net: 5.2kg, Total: 7.7kg	Net: 5.2kg, Total: 7.8kg	Net: 5.9kg, Total: 8.5kg	Net: 6.2kg, Total: 8.9kg	Net: 7.6kg, Total: 10.3kg	Net: 8.7kg, Total: 11.4kg
Environment	Heat Dissipation System	Passive heat dissipation										
	Operating Temperature	-20~60℃	-20~60℃	-20~60℃	-20~60℃	-20~60℃	0~50℃	0~50℃	0~50℃	-20~60℃	0~50℃	0~50℃
	Storage Temperature	-20~60℃	-20~70℃	-30~80℃	-30~70℃	-30~70℃	-20~60℃	-20~60℃	-20~60℃	-20~60℃	-20~60℃	-20~60℃
	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)										

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Product Dimensions

A	System Dimension			Panel Mount							
	X1	Y1	Z1	X2	Y2	Z2	X3	Y3	Z3	F1	F2
10.1"	272.1	192.7	70	260.9	181.5	28	262.5	183.1	8	6.9	7.8
10.4"	284	231.2	70	268.1	215.3	28	269.9	217.1	8	7.1	8.5
12.1"	321.9	260.5	70	307	245.6	28	309.8	248.4	8	7.1	8.5
15.0"	380.1	304.1	70	364.2	288.2	28	367	291	8	7.1	8.5
15.6"	420.3	269.7	70	404.5	253.8	28	407.3	256.6	8	7.1	8.5
17.0"	414	346.5	70	398.2	330.6	28	401	333.4	8	7.1	8.5
18.5"	485.7	306.3	70	469.8	290.4	28	472.6	293.2	8	7.1	8.5
19.1"	484.6	332.5	70	468.7	316.6	28	471.5	319.4	8	7.1	8.5
21.5"	552.6	344	70	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	70	572	344.4	28	574.8	347.1	6	5	6
27.0"	663.2	401.8	70	649.2	387.8	28	651.9	390.5	6	5	6

Product I/O

GND SIM DP USB*6 DC IN 12~28V
Audio HDMI LAN*2

Optional camera

PWR/HDD LED USB

aDoor Expansion I/O COM1/2 On/Off

GND SIM DP USB*6 DC IN 12~28V
Audio HDMI LAN*2

PWR/HDD LED USB

aDoor Expansion I/O COM1/2 On/Off