

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 65W, LGA1700
- 搭配 Intel® H610 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
- 智能风扇主动散热



远程管理



状态监控



远程运维



安全控制

产品规格

| Model | | PH150CL-E7S | PH156CL-E7S | PH170CL-E7S | PH185CL-E7S | PH190CL-E7S | PH215CL-E7S | PH238CL-E7S | PH270CL-E7S |
|------------------|--------------------|--|--------------|--------------|--------------|--------------|-------------|-------------|-------------|
| 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 | 65W | | | | | | | |
| | Socket | LGA1700 | | | | | | | |
| | Chipset | H610 | | | | | | | |
| | 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) | | | | | | | |
| Expansion Slots | M.2 | 1 * M.2 Key-M (SATA3.0, 2280) | | | | | | | |
| | aDoor | 1 * aDoor Bus (Optional 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card) | | | | | | | |
| Front I/O | Mini PCIe | 1 * Mini PCIe (PCIe3.0 x1 + USB 2.0, with 1*Nano SIM Card) | | | | | | | |
| | Ethernet | 2 * RJ45 | | | | | | | |
| | USB | 2 * USB3.2 Gen2x1(Type-A, 10Gbps) 2 * USB3.2 Gen1x1(Type-A, 5Gbps) 2 * USB2.0 (Type-A) | | | | | | | |
| | 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 | 1 * Nano SIM card slots(SIM1) | | | | | | | |
| 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) | | | | | | | |

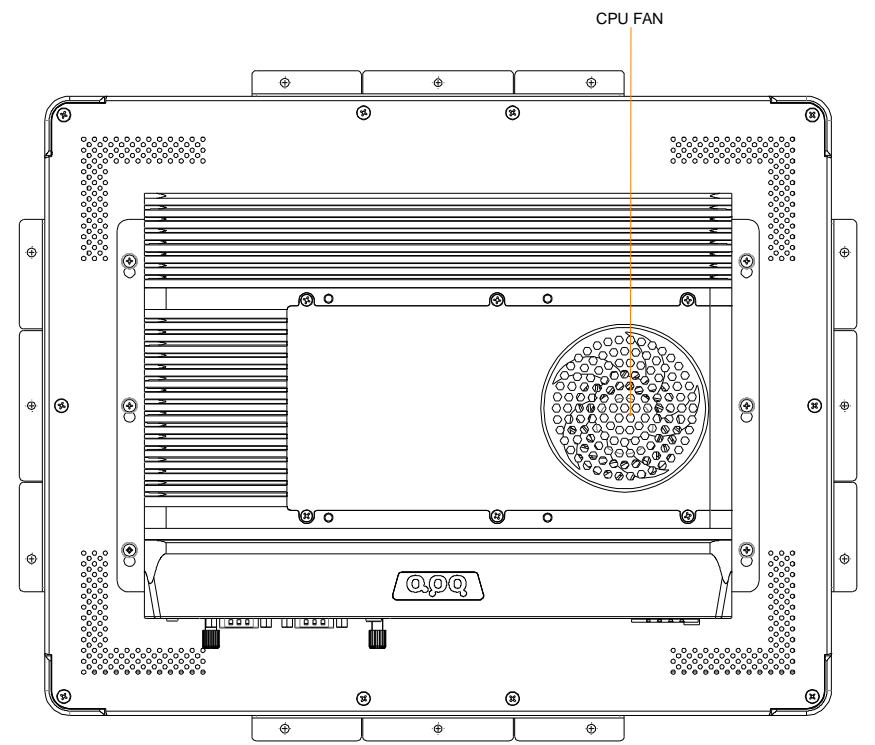
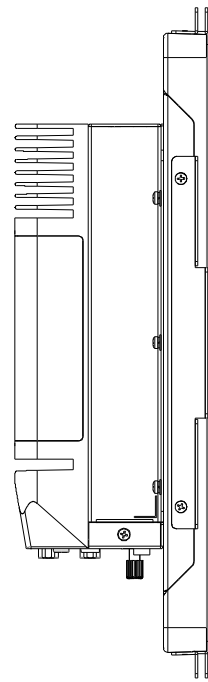
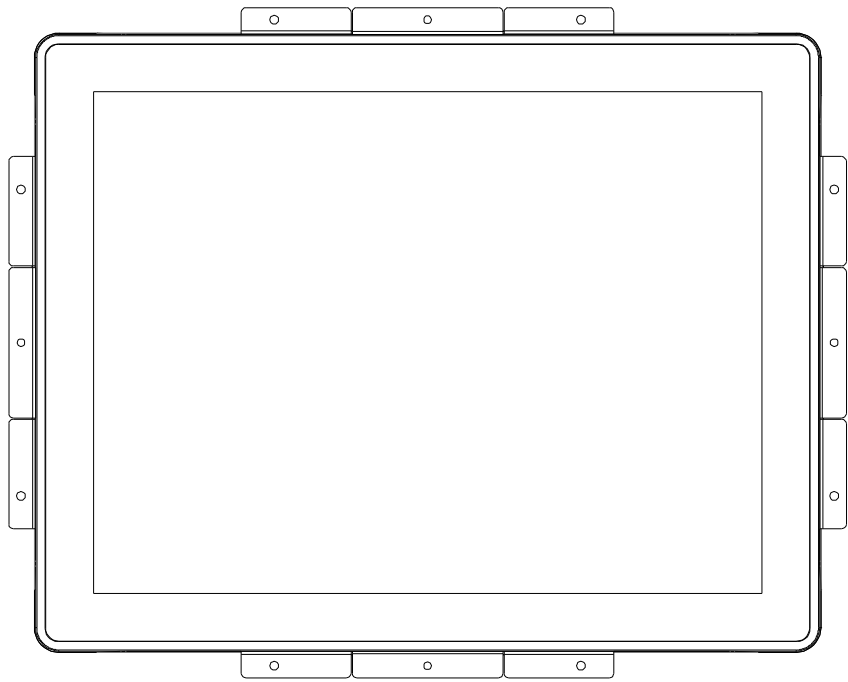
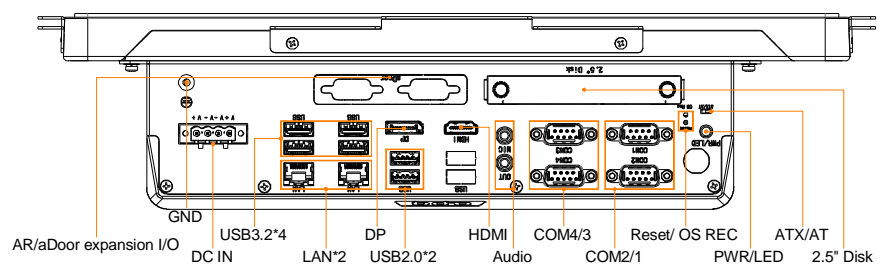
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|--------------|----------------------------------|--|----------------------------|----------------------------|--------------------------|-----------------------------|-------------------------|------------------------------|------------------------------|--|
| Power Supply | Type | DC, AT/ATX | | | | | | | | |
| | Power Input Voltage | 9~36VDC, P≤240W 18~60VDC, P≤400W | | | | | | | | |
| | Connector | 1 * 4Pin Connector, P=5.00/5.08 | | | | | | | | |
| | RTC Battery | CR2032 Coin Cell | | | | | | | | |
| OS Support | Windows | Windows 10/11 | | | | | | | | |
| | Linux | Linux | | | | | | | | |
| Watchdog | Output | System Reset | | | | | | | | |
| | Interval | Programmable 1 ~ 255 sec | | | | | | | | |
| Mechanical | Enclosure Material | Radiator: Aluminum alloy, Box: SGCC | | | | | | | | |
| | 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 | 582.3*323.7*89.4 | 585.4*357.7*89.4 | 662.3*400.9*89.4 | |
| | Weight | Net: 6.9Kg Total: 8.4Kg | Net: 7.2Kg Total: 8.7Kg | Net: 7.9Kg Total: 9.4Kg | Net: 8Kg Total: 9.7Kg | Net: 8.8Kg Total: 10.5Kg | Net: 9Kg Total: 11Kg | Net: 10.6Kg Total: 12.6Kg | Net: 11.7Kg Total: 13.7Kg | |
| Environment | Heat Dissipation System | PWM Fan 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

| 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



Nano SIM(Only support SIM1)

