



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® 4/5th Gen Core / Pentium/ Celeron Desktop CPU, TDP 35W
- 搭配 Intel® H81 芯片组
- 2 个 Intel 千兆网络接口和 4 个 DB9 串口
- M.2 和 2.5 寸双硬盘位存储支持
- 4 路显示输出 VGA, DVI-D, DP++和内部 LVDS,最高支持 4K@60Hz 分辨率
- 9~36V 直流供电 (可选 12V)
- 嵌入式/VESA 安装



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 | 4:03 | 16:09 | 5:04 | 16:09 | 5:04 | 16:09 | 16:09 | 16:09 |
| | 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 | 1000:01:00 | 800:01:00 | 1000:01:00 | 1000:01:00 | 1000:01:00 | 1000:01:00 | 1000:01:00 | 3000:01:00 |
| | 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® 4/5th Generation Core / Pentium/ Celeron Desktop CPU | | | | | | | |
| | TDP | 35W | | | | | | | |
| | Socket | LGA1150 | | | | | | | |
| | Chipset | Intel® H81 | | | | | | | |
| | BIOS | AMI UEFI BIOS (Support Watchdog Timer) | | | | | | | |
| Memory | Socket | 2 * Non-ECC SO-DIMM Slot, Dual Channel DDR3 up to 1600MHz | | | | | | | |
| | Max Capacity | 16GB, Single Max. 8GB | | | | | | | |
| Graphics | Controller | Intel® HD Graphics | | | | | | | |
| Ethernet | Controller | 1 * Intel i210-AT GbE LAN Chip (10/100/1000 Mbps) 1 * Intel i218-LM/V GbE LAN Chip (10/100/1000 Mbps) | | | | | | | |
| Storage | SATA | 1 * SATA3.0, Quick release 2.5" hard disk bays (T≤7mm) 1 * SATA2.0, Internal 2.5" hard disk bays (T≤9mm, Optional) | | | | | | | |
| | M.2 | 1 * M.2 Key-M (SATA3.0, 2280) | | | | | | | |
| Expansion Slots | MXM/aDoor | 1 * APQ MXM (Optional MXM 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card) 1 * aDoor Expansion Slot | | | | | | | |
| | Mini PCIe | 1 * Mini PCIe (PCIe2.0 x1 (Share PCIe signal with MXM, optional) + USB 2.0, with 1*Nano SIM Card) | | | | | | | |
| Front I/O | Ethernet | 2 * RJ45 | | | | | | | |
| | USB | 2 * USB3.0 (Type-A, 5Gbps) 4 * USB2.0 (Type-A) | | | | | | | |
| | Display | 1 * DVI-D: max resolution up to 1920*1200 @ 60Hz 1 * VGA (DB15/F): max resolution up to 1920*1200 @ 60Hz 1 * DP: max resolution up to 4096*2160 @ 60Hz | | | | | | | |
| | Audio | 2 * 3.5mm Jack (Line-Out + MIC) | | | | | | | |
| | Serial | 2 * RS232/422/485 (COM1/2, DB9/M, Full Lanes, BIOS Switch) 2 * RS232 (COM3/4, DB9/M) | | | | | | | |
| | Button | 1 * Power Button + Power LED 1 * System Reset Button (Hold down 0.2 to 1s to restart, and hold down 3s to clear CMOS) | | | | | | | |
| Rear I/O | Antenna | 4 * Antenna hole | | | | | | | |
| | SIM | 1 * Nano SIM card slot (SIM1) | | | | | | | |
| Internal I/O | USB | 2 * USB2.0 (wafer) | | | | | | | |
| | LCD | 1 * LVDS (wafer): max resolution up to 1920*1200 @ 60Hz | | | | | | | |
| | TFRont Panel | 1 * TF_Panel (3 * USB 2.0 + FPANEL, wafer) | | | | | | | |
| | Front Panel | 1 * Front Panel (PWR + RST + LED, wafer) | | | | | | | |
| | Speaker | 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 | 2 * SATA 7P Connector | | | | | | | |
| | SATA Power | 2 * SATA Power (SATA_PWR1/2, wafer) | | | | | | | |
| FAN | 1 * CPU FAN (wafer) 2 * SYS FAN (wafer) | | | | | | | | |

| | | | | | | | | | |
|---------------------|----------------------------------|--|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|
| Power Supply | Type | DC, AT/ATX | | | | | | | |
| | Power Input Voltage | 9 ~ 36VDC, P≤240W | | | | | | | |
| | Connector | 1 * 4Pin Connector, P=5.00/5.08 | | | | | | | |
| | RTC Battery | CR2032 Coin Cell | | | | | | | |
| OS Support | Windows | Windows 7/10/11 | | | | | | | |
| | Linux | Linux | | | | | | | |
| Watchdog | Output | System Reset | | | | | | | |
| | Interval | Programmable via Software from 1 to 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: 7.4Kg Total: 8.9Kg | Net: 7.5Kg Total: 9.0Kg | Net: 8.4Kg Total: 9.9Kg | Net: 8.5Kg Total: 10.0Kg | Net: 9.3Kg Total: 10.8Kg | Net: 9.5Kg Total: 11.0Kg | Net: 11.1Kg Total: 12.6Kg | Net: 12.2Kg Total: 13.7Kg |
| Environment | Heat Dissipation System | Fanless Passive Cooling | | | | | | | |
| | Operating Temperature | 0~50℃ | | | | | | | |
| | Storage Temperature | -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) | | | | | | | |

产品尺寸

Product Dimensions and Mounting Details

Model 1 (Left): Features 4-M ∇ 6 screws and 8- ϕ 4 holes. Mounting holes are 4- ϕ 3.5. Panel thickness: 1mm~1.2mm. Mounting: 8-BSO-3.5M3-6.

Model 2 (Right): Features 4-M ∇ 6 screws and 6- ϕ 3.5 holes. Mounting holes are 12- ϕ 4. Panel thickness: 1mm~1.2mm. Mounting: 12-BSO-3.5M3-6.

| 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

