



Features:

- Full-screen resistive touchscreen design
- Modular design 12.1~21.5" selectable, supports square/wide screens
- Front panel meets IP65 requirements
- Front panel integrates USB Type-A and signal indicator lights
- Supports Intel® 12/13th Gen Core / Pentium/ Celeron Desktop CPU, TDP 35W, LGA1700
- Paired with Intel® Q670 chipset
- 2 Intel network interfaces (1*1GbE & 1*2.5GbE)
- 3 display outputs HDMI, DP++ and internal LVDS, supports up to 4K@60Hz resolution
- Rich USB, serial port expansion interfaces, and PCIe, mini PCIe, M.2 expansion slots
- Fanless passive cooling



Remote Management



Status Monitoring



Remote Operations and Maintenance



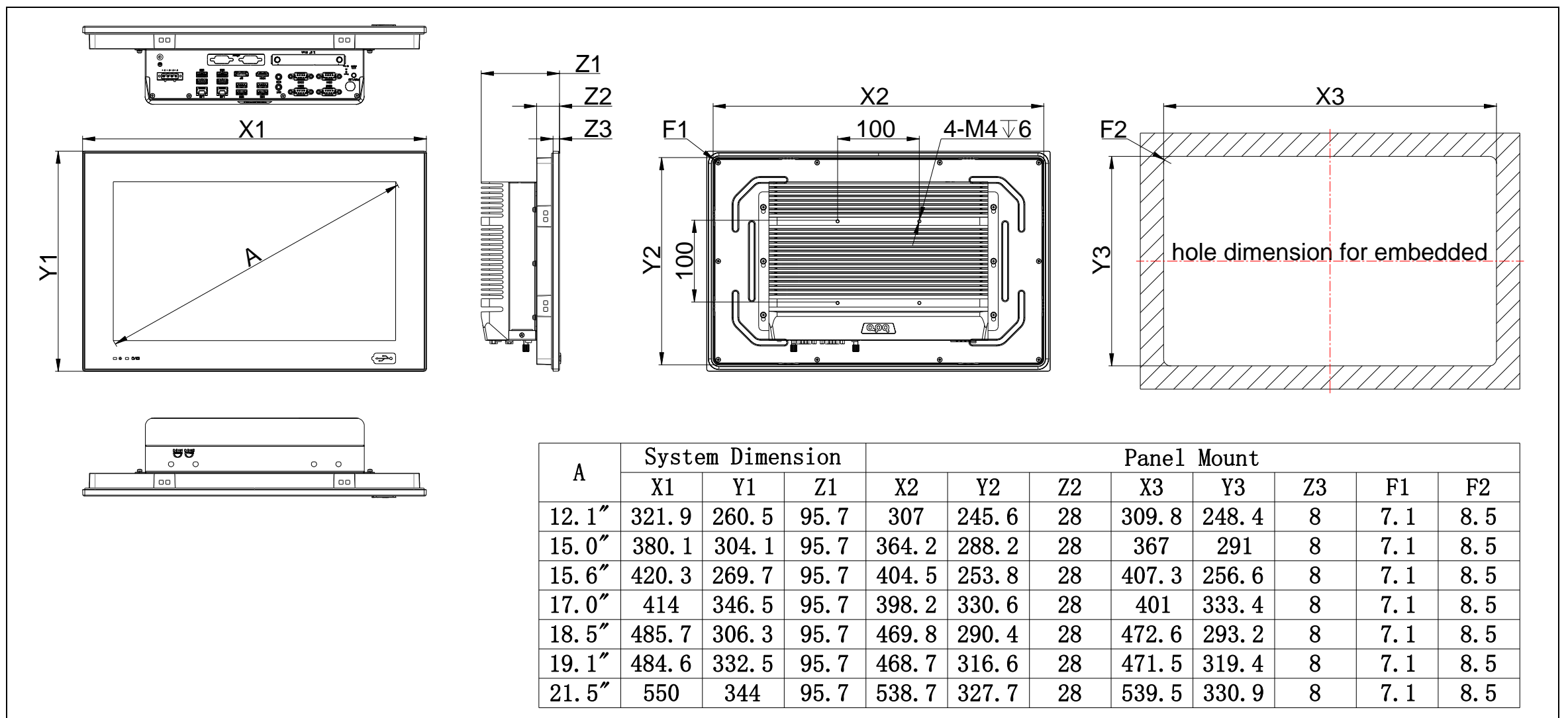
Security Control

Product Specifications

| Model | | PL121RQ-E7L | PL150RQ-E7L | PL156RQ-E7L | PL170RQ-E7L | PL185RQ-E7L | PL191RQ-E7L | PL215RQ-E7L |
|------------------|--------------------|--|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| LCD | Display Size | 12.1" | 15.0" | 15.6" | 17.0" | 18.5" | 19.1" | 21.5" |
| | Display Type | XGA TFT-LCD | XGA TFT-LCD | FHD TFT-LCD | SXGA TFT-LCD | WXGA TFT-LCD | WXGA TFT-LCD | FHD TFT-LCD |
| | Max.Resolution | 1024 x 768 | 1024 x 768 | 1920 x 1080 | 1280 x 1024 | 1366 x 768 | 1440 x 900 | 1920 x 1080 |
| | Luminance | 350 cd/m2 | 300 cd/m2 | 350 cd/m2 | 250 cd/m2 | 250 cd/m2 | 250 cd/m2 | 250 cd/m2 |
| | Aspect Ratio | 4:3 | 4:3 | 16:9 | 5:4 | 16:9 | 16:10 | 16:9 |
| | Viewing Angle | 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° |
| | Max. Color | 16.7M | 16.7M | 16.7M | 16.7M | 16.7M | 16.7M | 16.7M |
| | Backlight Lifetime | 30,000 hr | 70,000 hr | 50,000 hr | 30,000 hr | 30,000 hr | 30,000 hr | 50,000 hr |
| | Contrast Ratio | 800:1 | 2000:1 | 800:1 | 1000:1 | 1000:1 | 1000:1 | 1000:1 |
| Touchscreen | Touch Type | 5-wire resistive touch | 5-wire resistive touch | 5-wire resistive touch | 5-wire resistive touch | 5-wire resistive touch | 5-wire resistive touch | 5-wire resistive touch |
| | Controller | USB signal | USB signal | USB signal | USB signal | USB signal | USB signal | USB signal |
| | Input | finger/touch pen | finger/touch pen | finger/touch pen | finger/touch pen | finger/touch pen | finger/touch pen | finger/touch pen |
| | Light Transmission | ≥78% | ≥78% | ≥78% | ≥78% | ≥78% | ≥78% | ≥78% |
| | Hardness | ≥3H | ≥3H | ≥3H | ≥3H | ≥3H | ≥3H | ≥3H |
| Processor System | CPU | Intel® 12/13th Generation Core / Pentium/ Celeron Desktop CPU | | | | | | |
| | TDP | 35W | | | | | | |
| | Socket | LGA1700 | | | | | | |
| | Chipset | Q670 | | | | | | |
| Memory | BIOS | AMI 256 Mbit SPI | | | | | | |
| | Socket | 2 * Non-ECC SO-DIMM Slot, Dual Channel DDR4 up to 3200MHz | | | | | | |
| Graphics | Max Capacity | 64GB, Single Max. 32GB | | | | | | |
| | 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) | | | | | | |
| | SATA | 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 | M.2 | 1 * M.2 Key-M (PCIe x4 Gen 4 + SATA3.0, NVMe/SATA SSD Auto Detect, 2242/2260/2280) | | | | | | |
| | 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) | | | | | | |
| Front I/O | M.2 | 1 * M.2 Key-E (PCIe x1 Gen 3 + USB 2.0, 2230) | | | | | | |
| | 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) | | | | | | |
| Rear I/O | Button | 1 * Power Button + Power LED 1 * AT/ATX Button 1 * OS Recover Button 1 * System Reset Button | | | | | | |
| | 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) | | | | | | |
| Power Supply | FAN | 1 * CPU FAN (wafer) 2 * SYS FAN (KF2510-4A) | | | | | | |
| | 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) | 321.9*260.5*95.7 | 380.1*304.1*95.7 | 420.3*269.7*95.7 | 414*346.5*95.7 | 485.7*306.3*95.7 | 484.6*332.5*95.7 | 560*344*95.7 |
| | Weight | Net: 6.66Kg Total: 8.16Kg | Net: 8.05Kg Total: 9.55Kg | Net: 7.95Kg Total: 9.45Kg | Net: 8.8Kg Total: 10.6Kg | Net: 8.65Kg Total: 10.45Kg | Net: 10.05Kg Total: 11.85Kg | Net: 9.58Kg Total: 11.38Kg |
| Environment | Heat Dissipation System | Fanless Passive Cooling | | | | | | |
| | Operating Temperature | -20~60°C | -20~60°C | -20~60°C | -20~60°C | -20~60°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 |
| | Relative Humidity | 5 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) | | | | | | |
| | Certification | CE/FCC, RoHS | | | | | | |

Product Dimensions



Product I/O

