



**LPC-60A1-xxxC00**

**V1.0**

## Localization Panel PC

CPU 飞腾D2000 8核

2.3GHz 国产高性能处理器

平板工业计算机

## 1.1 产品简述 Feature

Phytium D2000 Processor, 8Core, base frequency 2.3GHz, TDP 40W  
 Support 2 x DDR4-2400MHz SO-DIMM slot, up to 64GB  
 Support 1 x HDMI, 1 x DP, 1 x LVDS or eDP dual-display  
 4 x Giga-bit Ethernet  
 4 x USB3.0 ports, 6 x USB2.0 ports  
 4 x RS232/485, 8 x UART  
 1 x SATA3.0, 1 x MSATA  
 12V power input, lockable DC-IN Phoenix terminal block  
 Support UOS or Kylin OS  
 Support 1 x PCIe16 expansion

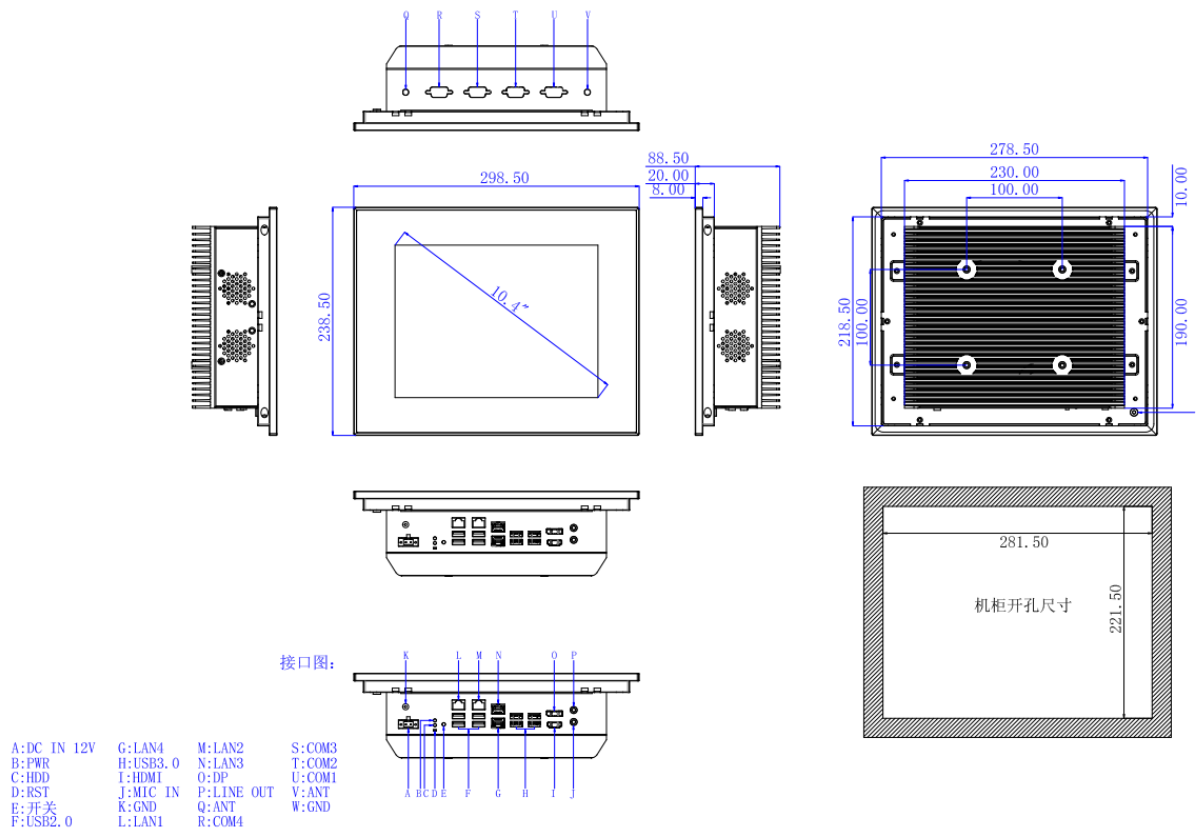
## 1.2 产品规格 Specification

| 项目                   |                    | 参数                                                    |                                            |                                      |                                    |
|----------------------|--------------------|-------------------------------------------------------|--------------------------------------------|--------------------------------------|------------------------------------|
| 处理器 Processor System | CPU                | PhytiumD2000 2.3GHz TDP 40W                           |                                            |                                      |                                    |
| 芯片组 Chipset          | 套片 Chipset         | Phytium X100 TDP 15W                                  |                                            |                                      |                                    |
| 引导 Guide             | BIOS               | Phytium UEFI                                          |                                            |                                      |                                    |
| 内存 Memory            | 技术 Technology      | Single Channel(Non-ECC) DDR4 2400MHz, up to 64GB      |                                            |                                      |                                    |
|                      | 插槽 Slot            | 2 x DDR4 SO-DIMM slot                                 |                                            |                                      |                                    |
| 存储 Storage           | SATA               | 1 x SATA3.0 port                                      |                                            |                                      |                                    |
|                      | MSATA              | 1 x MSATA(Full size)                                  |                                            |                                      |                                    |
| 外部接口 Rear I/O        | 网络 Ethernet        | 4 x GbE(RJ45), YT8531C & YT6801 controller            |                                            |                                      |                                    |
|                      | 显示 Display         | 1 x HDMI, resolution to 1920x1080@60Hz                |                                            |                                      |                                    |
|                      |                    | 1 x DP, resolution to 1920x1080@60Hz                  |                                            |                                      |                                    |
|                      | USB                | 4 x USB3.0(5Gbps)                                     |                                            |                                      |                                    |
|                      |                    | 4 x USB2.0                                            |                                            |                                      |                                    |
|                      | 串口 Serial Port     | 4 x COM(RS232/485)                                    |                                            |                                      |                                    |
| 内部接口 Internal I/O    | 音频 Audio           | 1 x Audio (Line out + Mic in)                         |                                            |                                      |                                    |
|                      | 显示 Display         | 1 x LVDS, resolution to 1920x1080@60Hz Combo with eDP |                                            |                                      |                                    |
|                      |                    | 1 x eDP, resolution to 1920x1080@60Hz Combo with LVDS |                                            |                                      |                                    |
|                      | USB                | 2 x USB2.0                                            |                                            |                                      |                                    |
|                      | SATA               | 1 x SATA3.0 port                                      |                                            |                                      |                                    |
|                      | 串口 Serial Port     | 8 x TTL wafer(2*10pin-2.54)                           |                                            |                                      |                                    |
|                      | 风扇 Fan             | 2 x Smart Fan wafer(1*4pin-2.54)                      |                                            |                                      |                                    |
|                      | GPIO               | 16 x GPIO Wafer(2*10pin-2.0)                          |                                            |                                      |                                    |
| 扩展接口 Expansion Slots | PCIe slot          | 1 x PCIe X16 slot with 16Lanes                        |                                            |                                      |                                    |
|                      |                    |                                                       |                                            |                                      |                                    |
| 液晶屏 LCD              | 尺寸 size            | 10.4" XGA TFT <input type="checkbox"/>                | 12.1" XGA TFT <input type="checkbox"/>     | 15" XGA TFT <input type="checkbox"/> | 15.6" TFT <input type="checkbox"/> |
|                      | 分辨率 Resolution     | 1024 x 768                                            | 1024 x 768                                 | 1024 x 768                           | 1366 x 768                         |
|                      | 背光 MTBF(hours)     | 30000hrs                                              | 50000hrs                                   | 30000hrs                             | 50000hrs                           |
|                      | 亮度 Luminance       | 350cd/m2                                              | 350cd/m2                                   | 400cd/m2                             | 400cd/m2                           |
|                      | 对比度 Contrast Ratio | 900 : 1                                               | 1000 : 1                                   | 800:1                                | 800:1                              |
|                      | 视角 Viewing Angle   | (L)75/(R)75/(T)75/(B)75                               | (L)80/(R)80/(T)60/(B)80                    | (L)85/(R)85/(T)85/(B)85              | (L)85/(R)85/(T)50/(B)80            |
|                      | 尺寸 size            | 15.6" TFT <input type="checkbox"/>                    | 17" SXGA TFT <input type="checkbox"/>      | 18.5" TFT <input type="checkbox"/>   | 18.5" TFT <input type="checkbox"/> |
|                      | 分辨率 Resolution     | 1920 x 1080                                           | 1280 x 1024                                | 1920 x 1080                          | 1366 x 768                         |
|                      | 背光 MTBF(hours)     | 15000hrs                                              | 30000hrs                                   | 50000hrs                             | 30000hrs                           |
|                      | 亮度 Luminance       | 250cd/m2                                              | 250cd/m2                                   | 350cd/m2                             | 250cd/m2                           |
|                      | 对比度 Contrast Ratio | 3000:1                                                | 1000:1                                     | 1000:1                               | 1000:1                             |
|                      | 视角 Viewing Angle   | (L)89/(R)89/(T)89/(B)89                               | (L)85/(R)85/(T)80/(B)80                    | (L)89/(R)89/(T)89/(B)89              | (L)89/(R)89/(T)89/(B)89            |
|                      | 尺寸 size            | 19" SXGA TFT <input type="checkbox"/>                 | 21.5" Full HD TFT <input type="checkbox"/> |                                      |                                    |
|                      |                    |                                                       |                                            |                                      |                                    |
|                      |                    |                                                       |                                            |                                      |                                    |

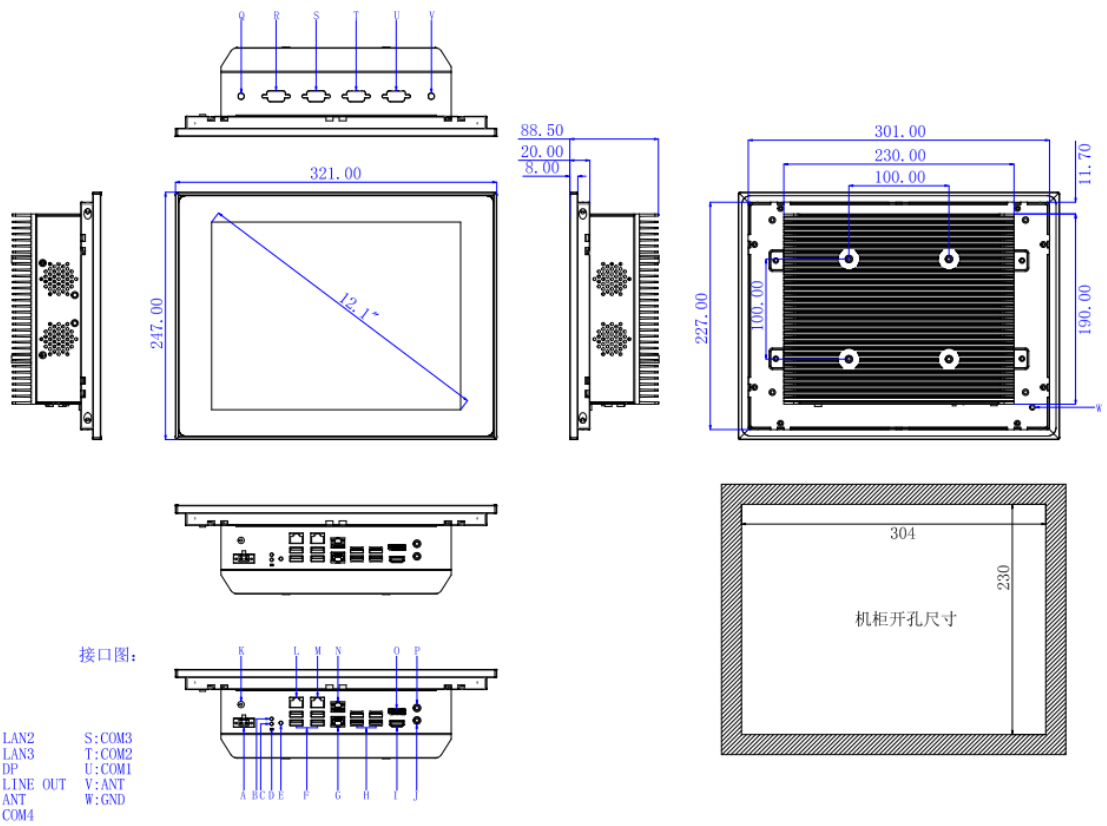
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|-----------------|----------------------------|-------------------------------------------------|--------------------------------------------|--------------------------------------|------------------------------------|
|                 | 分辨率Resolution              | 1280 x 1024                                     | 1920 x 1080                                |                                      |                                    |
|                 | 背光MTBF(hours)              | 30000hrs                                        | 50000hrs                                   |                                      |                                    |
|                 | 亮度Luminance                | 250cd/m2                                        | 250cd/m2                                   |                                      |                                    |
|                 | 对比度Contrast Ratio          | 1000:1                                          | 1000:1                                     |                                      |                                    |
|                 | 视角Viewing Angle            | (L)85/(R)85/(T)80/(B)80                         | (L)89/(R)89/(T)89/(B)89                    |                                      |                                    |
| 触摸屏Touch Screen | 类型Type                     | 多点电容式触摸屏 Multi point capacitive touch screen    |                                            |                                      |                                    |
|                 | 透光率Transmittance           | > 87%                                           |                                            |                                      |                                    |
|                 | 控制器Controller Interface    | USB                                             |                                            |                                      |                                    |
| 电源 Power Input  | 输入电压 Power Supply Voltage  | 12VDC                                           |                                            |                                      |                                    |
|                 | 最大功耗Power Consumption      | 75Watt                                          |                                            |                                      |                                    |
| 操作系统 OS         | 操作系统 OS                    | UOS、Kylin等国产操作系统                                |                                            |                                      |                                    |
| 机构Mechanical    | 尺寸size                     | 10.4" XGA TFT <input type="checkbox"/>          | 12.1" XGA TFT <input type="checkbox"/>     | 15" XGA TFT <input type="checkbox"/> | 15.6" TFT <input type="checkbox"/> |
|                 | 重量 Weight                  | 1.76Kg                                          | 1.85kg                                     | 1.92kg                               | 2.03kg                             |
|                 | 总体尺寸 Dimensions(L x W x H) | 298.5mmx 238.5mmx 88.5mm                        | 321mm x 247mm x 88.5mm                     | 371mm x 295mmx 88.5mm                | 405mm x 258mmx 88.5mm              |
|                 | 开孔尺寸 Cut out size(W x H)   | 281.5mm x 221.5mm                               | 304mm x 230mm                              | 278mm x 354mm                        | 388mm x 241mm                      |
|                 | 尺寸size                     | 15.6" TFT <input type="checkbox"/>              | 17" SXGA TFT <input type="checkbox"/>      | 18.5" TFT <input type="checkbox"/>   | 18.5" TFT <input type="checkbox"/> |
|                 | 重量 Weight                  | 2.03Kg                                          | 2.22Kg                                     | 2.38Kg                               | 2.38Kg                             |
|                 | 总体尺寸 Dimensions(L x W x H) | 405mm x 258mmx 88.5mm                           | 428mm x 342mmx 88.5mm                      | 480mm x 304mmx 88.5mm                | 480mm x 304mmx 88.5mm              |
|                 | 开孔尺寸 Cut out size(W x H)   | 388mm x 241mm                                   | 325mm x 411mm                              | 463mm x 287mm                        | 463mm x 287mm                      |
|                 | 尺寸size                     | 19" SXGA TFT <input type="checkbox"/>           | 21.5" Full HD TFT <input type="checkbox"/> |                                      |                                    |
|                 | 重量 Weight                  | 2.48Kg                                          | 2.53Kg                                     |                                      |                                    |
|                 | 总体尺寸 Dimensions(L x W x H) | 460mm x 369mmx 88.5mm                           | 550mm x 342mmx 88.5mm                      |                                      |                                    |
|                 | 开孔尺寸 Cut out size(W x H)   | 443mm x 352mm                                   | 533mm x 325mm                              |                                      |                                    |
|                 | 安装方式Installation           | Panel Mounted & VESA Mounted                    |                                            |                                      |                                    |
| 环境Environmental | 操作温度 Operating Temp        | -10°C ~ 45°C                                    |                                            |                                      |                                    |
|                 | 存储温度 Storage Temp          | -40°C ~ 80°C                                    |                                            |                                      |                                    |
|                 | 湿度 Relative Humidity       | 5% ~ 95%, 非凝结状态Non-condensing                   |                                            |                                      |                                    |
|                 | 振动 Vibration               | 5~500Hz, operation: 1Grms; Non-operation: 2Grms |                                            |                                      |                                    |
|                 | 机械冲击 Shock                 | Operation: 5G@11ms Non-operation: 10G@11ms      |                                            |                                      |                                    |
|                 | EMC                        | CE/FCC Class B                                  |                                            |                                      |                                    |
|                 | 防水 Waterproof              | 前面板IP65 防护等级 Front IP65 Compliant               |                                            |                                      |                                    |

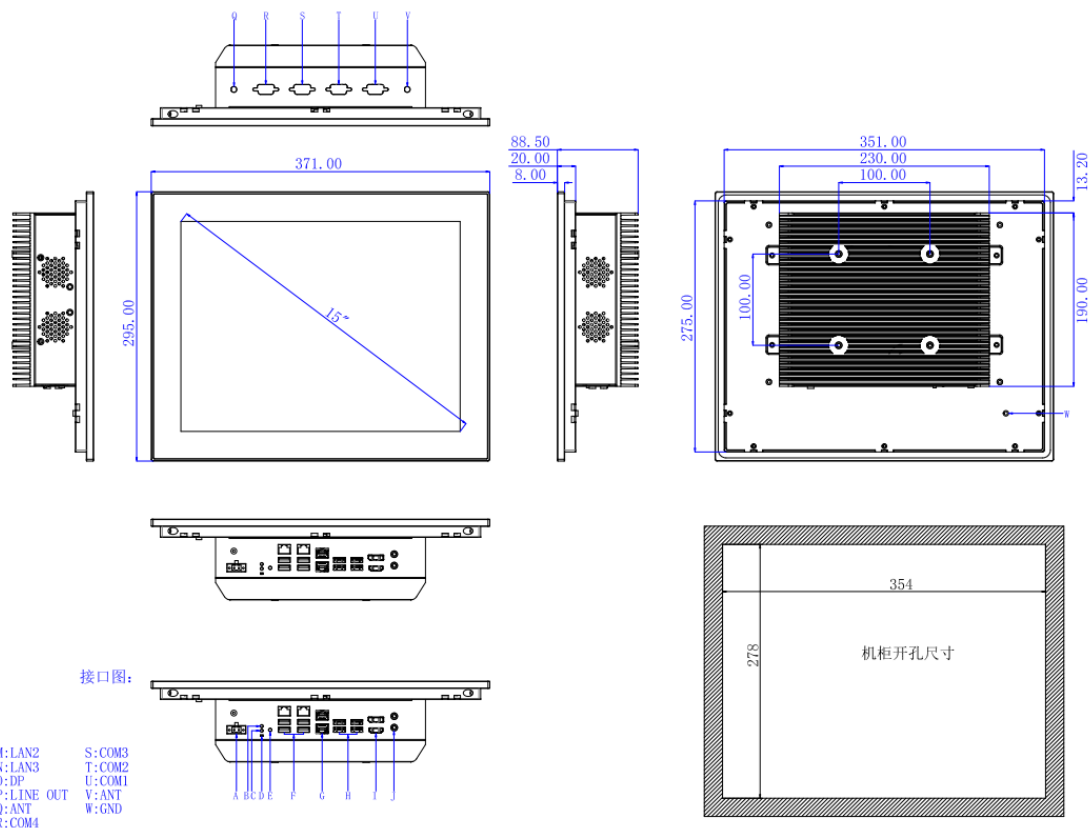
## 1.3 外观尺寸

LPC-60A1-104C00\_(10.4寸)

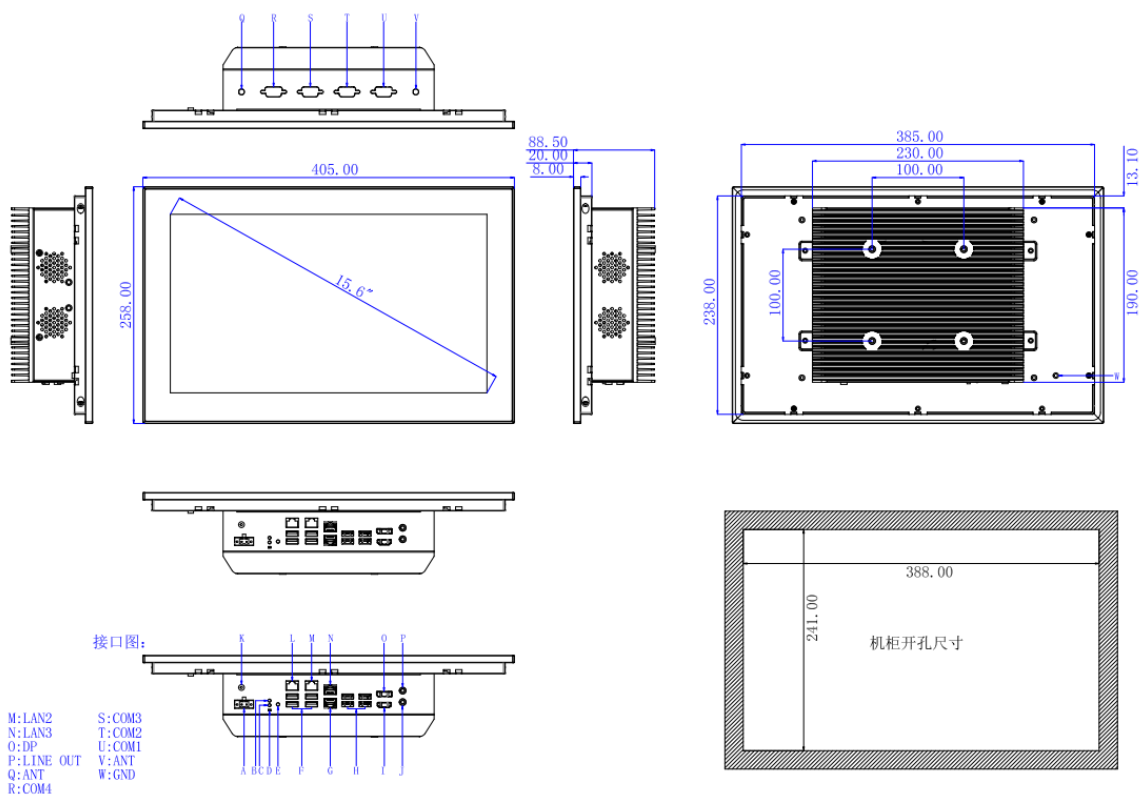


LPC-60A1-121C00\_(121寸)

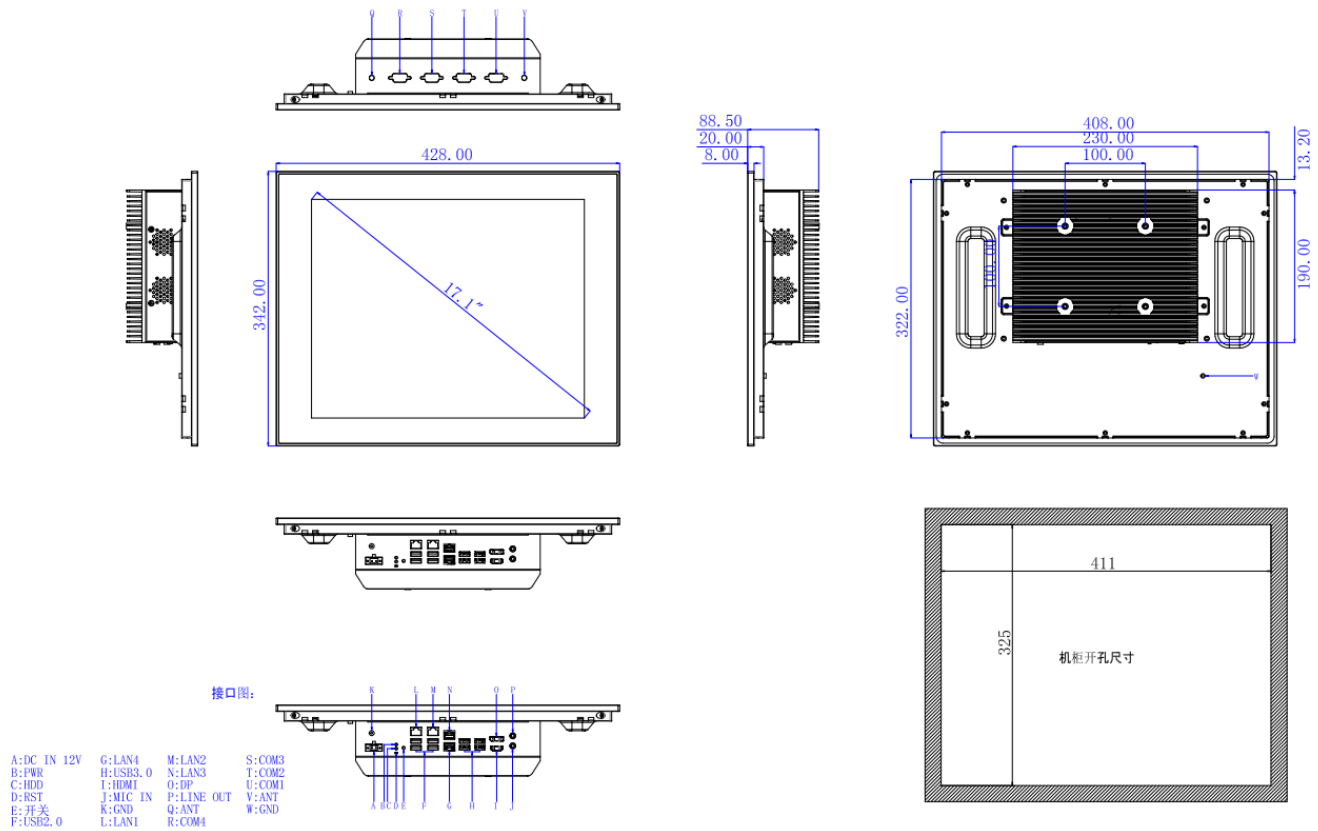




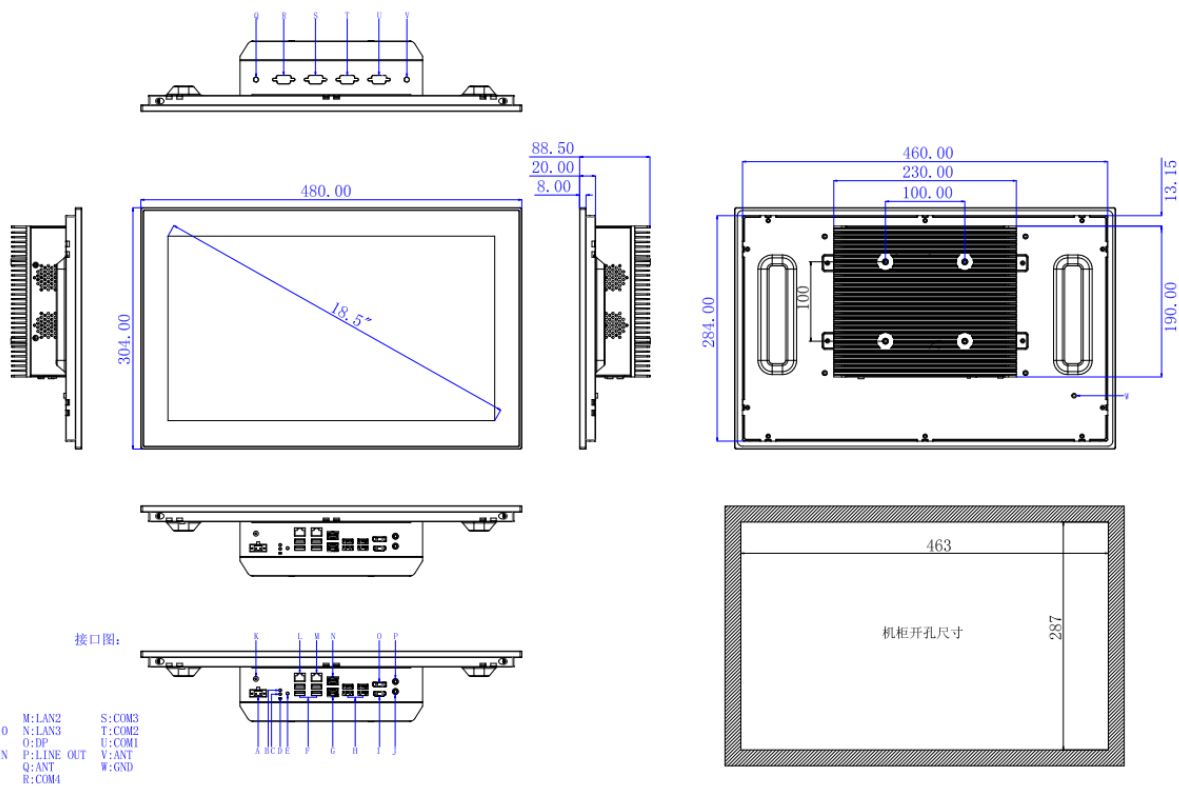
LPC-60A1-156C00\_(15.6寸)

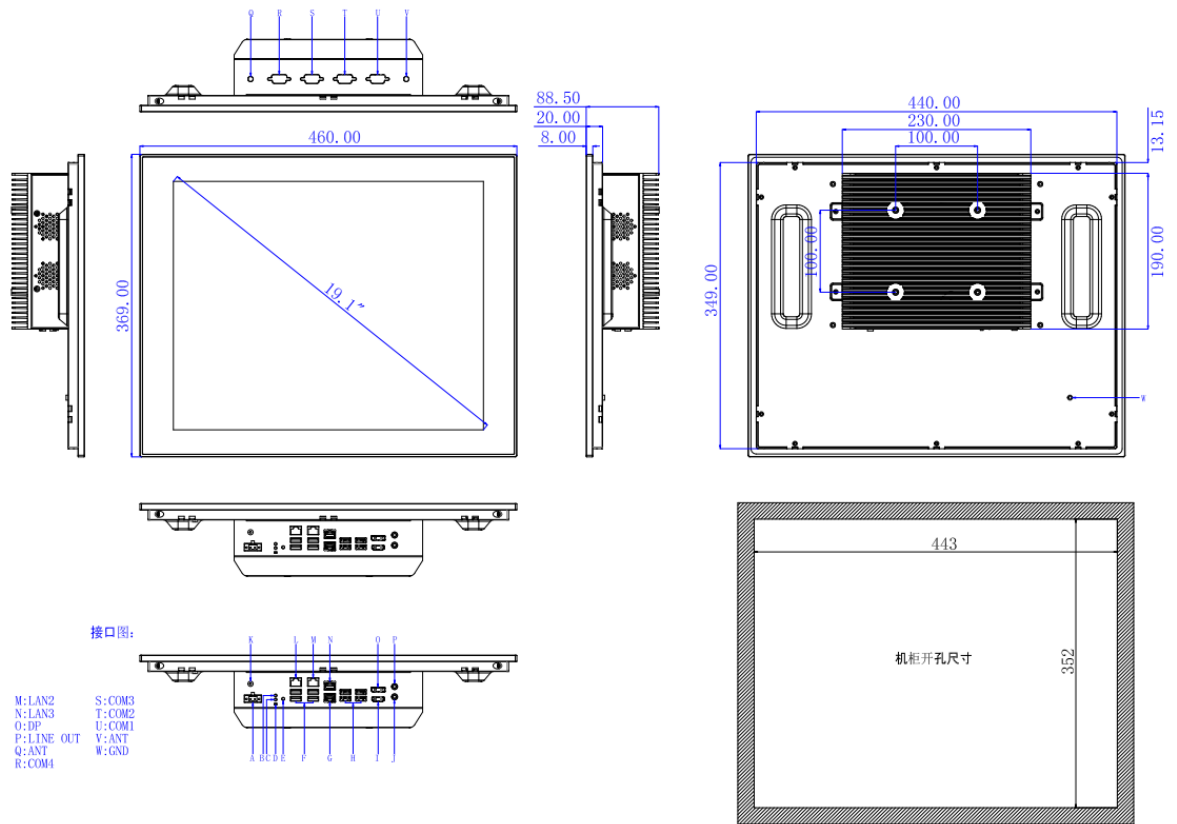


LPC-60A1-170C00\_(17寸)



LPC-60A1-185C00\_(18.5寸)





LPC-60A1-215C00\_(21.5寸)

