

## TPC215-A40

Adopting a self-developed industrial motherboard with a built-in independent NPU, it delivers 6 TOPS of AI computing power and supports lightweight AI application development. It is specifically designed for complex medical environments. All products have passed medical-grade tests including EMI, ESD, safety regulations, electrical fast transients (EFT), and radiated emissions. They are widely used in intelligent terminal equipment for medical treatment, medical diagnosis, and medical assistance self-service terminals.

### Features

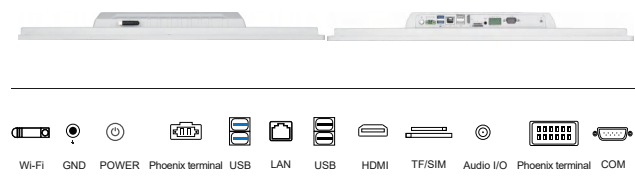
- Protective-grade PCB materials
- Utilizes first-tier brand chips and high-quality various components.
- RK3576, Octa-core 64-bit CPU, Main frequency 2.2GHz
- Internal anti-vibration and anti-interference structural design
- EMI/EMC complies with industry standards.
- Obtain Medical Industry Test Report



### Model

|                  |              |
|------------------|--------------|
| Product size     | 21.5"        |
| Non-touch        | TPC215-A4002 |
| Capacitive touch | TPC215-A4012 |
| Resistive touch  | TPC215-A4022 |

### I/O Interface



### Specification

#### Screen Parameter

|                    |                       |
|--------------------|-----------------------|
| Display type       | 21.5" TFT LCD screen  |
| MAX.resolution     | 1920*1080(16:9)       |
| Viewing angle(H/V) | 89/89/89/89 (L/R/U/D) |
| Luminance (cd/m²)  | 300 cd/m²             |
| Contrast ratio     | 1000:1                |

#### Touch Parameter

| Touchscreen        | Projection capacitive touch 10-point multi touch | Resistive touch single point | Non-touch |
|--------------------|--------------------------------------------------|------------------------------|-----------|
| Light transmission | ≥88%                                             | ≥78%                         | ≥92%      |
| Controller         | USB ( COM customized)                            | USB ( COM customized)        | /         |

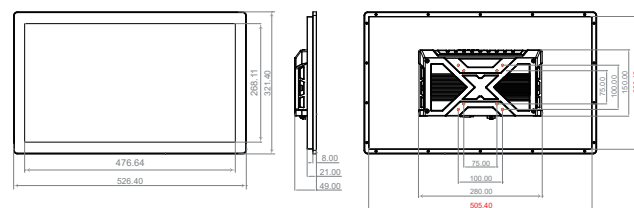
#### Power Parameter

|               |            |
|---------------|------------|
| Power input   | DC 12V-36V |
| Power adapter | 24V/2.5A   |

#### Configuration

|                  |                                  |                     |                                |
|------------------|----------------------------------|---------------------|--------------------------------|
| CPU              | RK3576, Octa-core 2.2GHz CPU     | Wi-Fi               | Wi-Fi 6, Dual Band 2.4GHz+5GHz |
| Memory/RAM       | 4GB (Optional 8GB)               | Bluetooth           | BT5.3                          |
| Storage          | 64GB eMMC (Optional 128GB/256GB) | Watchdog Timer      | Support                        |
| NPU              | 6T OPS AI computing power        | RTC real time clock | Support                        |
| Operating system | Android14, Ubuntu/Debian/Linux   | Timer switch        | Support                        |

### Dimension



#### Physical Characteristic

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Overall dimensions | W526.4x H321.4x D49mm                                                                           |
| VESA               | 75x75mm, 100x100mm, M4 screw hole                                                               |
| Material           | Aluminum alloy                                                                                  |
| Color              | White                                                                                           |
| Installation       | Supports Wall-mounted/Desktop/VESA mount/Suspended mounting/Folding mounting/Back hanging, etc. |

#### Interface Parameter

|                  |                                                           |
|------------------|-----------------------------------------------------------|
| PowerSW          | 1*PowerSW                                                 |
| Power interface  | 1*3.81-2P Phoenix Terminal (Optional upgrade to DC 2.0*1) |
| Phoenix terminal | 1*12P Phoenix terminal (CAN*1/232*2/485*2/5V/GND)         |
| USB              | 4*USB (2*USB2.0, 2*USB3.0)                                |
| TF               | Supports TF Card Expansion (1*TF Card Slot)               |
| SIM              | 1*SIM card slot (should be work with 3G/4G module)        |
| HDMI             | 1*HDMI output, up to 4K                                   |
| Ethernet         | 1*LAN, 10M/100M/1000M adaptive Ethernet, 3G/4G customized |
| Audio            | 1*Audio I/O, Support audio input and output               |
| Serial port      | Standard1*DB9 RS232 Serial Port (232/TTL Interchangeable) |
| UBOOT            | 1*UBOOT                                                   |
| Wi-Fi antenna    | 1*Wi-Fi antenna                                           |
| Grounding        | 1*GND                                                     |
| Speaker          | 2*(8Ω2W)                                                  |

#### Reliability Parameter

|                       |                                           |
|-----------------------|-------------------------------------------|
| Operating temperature | -10°C~60°C (-20°C~70°C can be customized) |
| Storage temperature   | -20°C~70°C                                |
| Relative humidity     | 95% non-condensing                        |