

# **Industrial Android all in one PC 15.6 inch**

**Size: 15.6"**

15.6 inch industrial Android panel PC designed with aluminium alloy rugged housing and android platform, helping users from industrial automation to realize advantage of Android based industrial tablet pc.







## Industrial Android all-in-one PC 15.6"

### Model: SD156-A2

SD-OMEGA offers a full range of industrial all-in-one PCs for professional industrial applications. They are equipped with an excellent display and a fanless advanced box PC that can be used for indoor and outdoor applications.

|                               |                |   |
|-------------------------------|----------------|---|
| <b>Display<br/>Parameters</b> | Size           | 15.6"                                       |
|                               | Resolution     | 1920x1080                                   |
|                               | Screen Ratio   | 16:9  |
|                               | Brightness     | 300 nits (Optional high brightness)         |
|                               | Contrast Ratio | 800:1                                       |
|                               | Viewing Angle  | 89/89/89/89 (L/R/U/D)                       |
|                               | Backlight type | LED backlight screen, service life ≥ 50000H |
|                               | Touch Screen   | Capacitive, Resistive, or Non-touch options |

| Motherboard Model Selection |                   | SD64                    | SD3288-I   | SD3399-MAIN-L  | SD3399-A   | SD3568-A  | SD3588-A                                    | SD3588-G  |
|-----------------------------|-------------------|-------------------------|--|--|--|---|---|---|
| System Architecture         | CPU               | A64 Quad-Core 1.5GHz    | RK3288 Quad-Core 1.8GHz                                  | RK3399 Six-Core 2.0GHz                                       | RK3399 Six-Core 2.0GHz                                   | RK3568 Quad-Core 2.0GHz                           | RK3588 Octa-Core 2.1GHz                     | RK3588 Octa-Core 2.1GHz                           |
|                             | Core Architecture | Cortex-A53              | Cortex-A17   | Dual-Core Cortex-A72 + Quad-Core Cortex-A53                  | Dual-Core Cortex-A72 + Quad-Core Cortex-A53              | Cortex-A55  | Quad-Core Cortex-A76 + Quad-Core Cortex-A55 | Quad-Core Cortex-A76 + Quad-Core Cortex-A55       |
|                             | GPU               | Mali-T764               | Mali-T764  | Mali-T860 MP4  | Mali-T860 MP4  | Mali-G52 2EE                                      | Mali G610 MP4                               | Mali G610 MP4                                     |
|                             | Memory (DDR)      | 2GB (8GB optional)      | 2GB (4GB optional)                                       | 4GB  | 2/4GB  | 2GB (4/8GB optional)                              | 4GB (8/32GB optional)                       | 8GB (16/32GB optional)                            |
|                             | Storage (eMMC)    | 16GB (32/64GB optional) | 16GB (32/64/128/256GB optional)                          | 32GB (64GB optional)   | 32/64GB (256GB optional)                                 | 32GB (64/128/256GB optional)                      | 64GB (128/256GB optional)                   | 64GB (128/256GB optional)                         |
|                             | SATA              | /                       | /  | /  | /  | Support   | /   | 1*SATA hard drive port                            |
|                             | Operating System  | Android 6.0             | Android 7.1 / 10.0 / Linux4.4 / Ubuntu18.04 / Debian10.0 | Android 7.1 / 9.0 / 11 / Ubuntu18.04 / Debian10.0 / Linux4.4 | Android 7.1/9.0/11, Linux 4.4 / Ubuntu 18.04 / Debian 10 | Android 12 / Linux5.10 / Ubuntu 20.04 / Debian 11 | Android 13.0                                | Android 12 / Linux 5.10 / Debian11 / Ubuntu 20.04 |

| <b>Networking</b>       | Ethernet    | 1*10M/100M adaptive Ethernet               | 1*10M/100M adaptive Ethernet | 1*10M/100M adaptive Ethernet | 1*10M/100M adaptive Ethernet | 1*10M/100M adaptive Ethernet | 1*Gigabit Ethernet + 1*100 Mbit Ethernet   | 2*10M/100M/1000M adaptive Ethernet       |  |
|-------------------------|-------------|--|------------------------------|------------------------------|------------------------------|------------------------------|--|--|--|
|                         | 4G          | Optional. Based on the 4G module selection |                              |                              |                              |                              |  |  |  |
|                         | 5G          | /  | /                            | /                            | /                            | /                            | /  | Support M.2 5G module interface          |  |
|                         | WIFI        | 2.4G                                       | Dual-band 2.4/5G             | Dual-band 2.4/5G             | Dual-band 2.4/5G             | WIFI6, 2.4G                  | WIFI6, Dual-band 2.4/5G                    | WIFI5/WIFI6 (optional), dual-band 2.4/5G |  |
|                         | Bluetooth   | BT5.0                                      | BT5.0                        | BT5.0                        | BT5.0                        | BT5.2                        | BT5.0                                      | BT4.2 (WIFI 5) / BT5.0 (WIFI 6)          |  |
|                         |             |  |                              |                              |                              |                              |  |  |  |
| <b>Display Function</b> | LVDS        | Support 1920*1080 60Hz output              |                              |                              |                              |                              |  |  |  |
|                         | EDP         | /  | 1920*1080 60Hz output        |                              |                              |                              |  | 4K 3840*2160 output                      |  |
|                         | MIPI        | Support 1920*1080 60Hz output              |                              |                              |                              |                              |  |  |  |
|                         | Mipi Camera | 30pin FPC interface, support 1300W Camera  |                              |                              |                              |                              |  |  |  |
|                         | HDMI Output | HDMI 2.0, support 4K 3840*2160 60Hz output |                              |                              |                              |                              | HDMI 2.1, support 8K 7680*4320 60Hz output |  |  |
|                         | HDMI        | /  | HDMI Input,                  | /                            | HDMI Input,                  | /                            | /  | HDMI 2.0, support                        |  |

|                       |                 |   |  |                            |                              |                            |                              |                                 |  |
|-----------------------|-----------------|---|--|----------------------------|------------------------------|----------------------------|------------------------------|---------------------------------|--|
|                       | Input           |   | 24-pin FPC custom interface                    |                            | 24-pin FPC custom interface  |                            |                              | 4K 3840*2160 60Hz input         |  |
| <b>Touch Function</b> | Touch Interface | USB/IIC                                     | USB  | USB/IIC                    |                              |                            |                              |                                 |  |
| <b>I/O Ports</b>      | MICRO USB       | 1*MICRO USB (OTG)                           | /  | /                          | /                            | /                          | /                            |                                 |  |
|                       | USB 2.0         | USB2.0*2 + USB2.0*4 on board                | USB2.0*2 (including OTG*1) + USB2.0*6 on board | USB2.0*5 on board          | USB2.0*1 + USB2.0*5 on board | USB2.0*4 on board          | USB2.0*1 + USB2.0*4 on board | USB2.0*5 on board               |  |
|                       | USB 3.0         | /   | /  | USB3.0*2 (including OTG*1) | USB3.0*1 (OTG)               | USB3.0*2 (including OTG*1) | USB3.0*1 (OTG)               | USB3.0*4 (including OTG*1)      |  |
|                       | RS232           | 3*RS232/TTL mutual conversion               | 1*RS232, 2*TTL/RS232 optional                  | RS232*2                    | RS232*2                      | RS232*2                    | RS232*2                      | RS232*1; RS232/TTL*2 (optional) |  |
|                       | RS485           | / (Unless install RS485 to RS485 converter) | install RS232 to RS485 converter)              | RS485*1                    | RS485*1                      | RS485*1                    | RS485*1                      | RS485*1                         |  |
|                       | TTL             | 3*RS232/TTL mutual conversion               | 1*RS232, 2*TTL/RS232 optional                  | TTL*2                      | TTL*2                        | TTL*2                      | TTL*2                        | TTL*1; RS232/TTL*2 (optional)   |  |

|                   |               |   |                       |                       |                       |                        |                       |            |
|-------------------|---------------|---|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|------------|
|                   |               | ersion                                      |                       |                       |                       |                        |                       |            |
|                   | GPIO          | 3*GPIO output, 1*GPIO input, and 1*ADC port | GPIO*7 (input/output) | GPIO*8 (input/output) | GPIO*8 (input/output) | GPIO*12 (input/output) | GPIO*6 (input/output) |            |
|                   | SIM Slot      | Support                                     | Support               | Support               | Support               | Support                | Support               |            |
|                   | TF Slot       | Support                                     | Support               | Support               | Support               | Support                | Support               |            |
|                   | CAN           | /   | /                     | /                     | /                     | Support                | Support               |            |
|                   | Speaker       | 3.5mm standard Jack                         |                       |                       |                       |                        |                       |            |
|                   | MIC           | Support                                     | Support               | Support               | Support               | Support                | Support               |            |
|                   | Audio Port    | 3.5mm earphone jack, support input/output   |                       |                       |                       |                        |                       |            |
|                   | I/O Expansion | Available                                   |                       |                       |                       |                        |                       |            |
|                   |               |   |                       |                       |                       |                        |                       |            |
| <b>Power</b>      | Power Input   | 12V DC                                      | 12V DC                | 12-36V DC             | 12-36V DC             | 12-36V DC              | 12-36V DC             | 12-36V DC  |
|                   | Adapter       | 12V / 4A                                    | 12V / 4A              | 24V / 2.5A            | 24V / 2.5A            | 24V / 2.5A             | 24V / 2.5A            | 24V / 2.5A |
|                   |               |   |                       |                       |                       |                        |                       |            |
| <b>Mechanical</b> | Dimension     | 420*269*70mm                                |                       |                       |                       |                        |                       |            |

|                            |                  |  |
|----------------------------|------------------|--|
|                            | Enclosure        | Aluminum alloy housing   |
|                            | Cooling System   | Fanless  |
|                            | Mounting         | Panel-mount, Embedded, desktop, wall-mounted, VESA75/100mm, open frame, etc. |
|                            |                  |  |
| <b>Product Reliability</b> | Working Temp     | -20°C ~ 70°C   |
|                            | Storage Temp     | -30°C ~ 80°C   |
|                            | Ambient Humidity | 5% - 95% (relative humidity non-condensing)                                  |
|                            | IP rating        | Front IP65   |