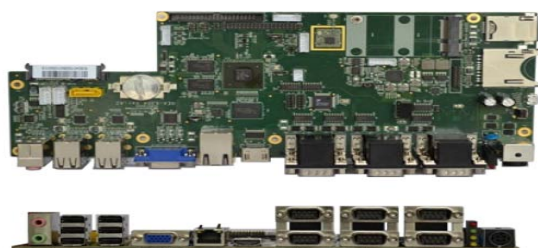


# GEA-6304 Industrial ARM Embedded Board



## Feature:

- Industrial grade embedded main board which design is based on free scale I.MX6 series platform
- Support multiple performance configuration combinations
- On board multichannel IO ports
- One side outlet design
- Aim at Android system to conduct a optimization in comprehensive and reliability
- Whole layout adopts industrial grade design and mode option

| Specification         |                       |  |
|-----------------------|-----------------------|--|
| Processor             | CPU                   | be compatible with IMX6 whole series of CPU:Signal-core,Dual-Core  |
| RAM                   |                       | Optional 2GB or 1GB,DD3,1066MHz  |
| Network               | Gigabit Ethernet      | On board RJ45 port   |
|                       | WIFI                  | support 802.11b/g/n,provide WIFI hot spot function   |
| Hardware Monitor      | Watch dog timer       | 0-255 seconds,offer Watch dog routine  |
| Storage               | SSD                   | eMMC 4/8/16GB/32GB optional, 8 GB as standard  |
|                       | SD                    | 1 channel standard SD base   |
|                       | SATA                  | support SATA+POWER integration connector   |
| Port                  | RS232/485             | 1 channel isolated RS232/RS485 optional,5 channel RS232, on board 2 TTL port PIN                                     |
| USB                   | USB2.0+OTG            | 6 USB2.0,1 OTG   |
| Display               | VGA                   | standard VGA output  |
|                       | LVDS                  | built-in 24 channel LVDS Dual Channel PIN, support two-path single channel operation                                 |
|                       | HDMI                  | HDMI standard,can transmit audio,support 1080P,720P etc,support special resolution rate 1028X768 and 1366X768 etc    |
|                       | Touch Screen          | support various touch screen connectors including 4 wire resistance screen,I2C touch screen and USB tough screen etc |
| Expansion interface   | MINI PCIE             | support expansion overall MINI PCIE,support 3G/4G etc  |
|                       | SIM                   | On board SIM card outlet   |
|                       | GPIO                  | On board 32 channel GPIO PIN   |
|                       | RESET                 | support hard reset switch  |
|                       | CAN                   | on board 2 TTL electric level CAN connectors   |
| Audio                 | Connector             | standard 3.5mm MIC/earphone  |
|                       | Power amplifier       | optional 2w8ΩDrive,dual track output   |
| Function button       | KEYPAD                | support expansion function button board  |
| RTC clock             | System clock          | adopt external RTC PCF8563,accuracy requirement:error < +/-3S  |
| Power                 | Power type            | DC 12V input,support Power reverse and over voltage protection   |
|                       |                       | Power interface is fastener industrial grade interface   |
| Operating Environment | Operating Temperature | -20°C-70°C   |
|                       | Storage Temperature   | -40°C-80°C   |
|                       | Operating Humidity    | 0%-90% relative humidity, no condensation  |
|                       | Storage Humidity      | 0%-90% relative humidity, no condensation  |
| Dimension             | Construction Design   | integrative one side shoreline outlet pattern  |
|                       | Dimension             | 270mmX110mm  |