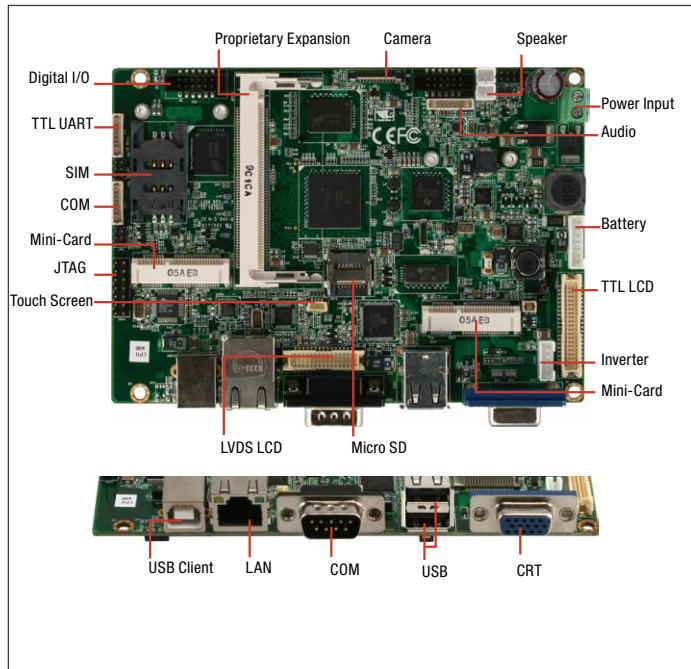


RISC CPU Board With TI OMAP™ 3503/3530 Processor



Features

- TI OMAP™ 3503/3530 Processor
- 3D Graphics & Video Accelerator Support with 3530 Processor
- Onboard 128/256 MB (Optional) LP DDR RAM
- 10/100Base-TX Ethernet
- CRT/ 24-bit TTL LCD/ 18-bit LVDS LCD
- 2CH Audio
- Onboard NAND Flash, SD, MicroSD
- USB2.0 Host x 2, USB2.0 Client x 1, COM x 2, 8-bit Digital I/O
- Mini-Card x 2, Proprietary Expansion Slot x 1
- Onboard 4-wire Resistive Touch Screen Controller
- +9V To +24V DC Input
- Onboard Battery Charger
- Windows® CE 6.0/ Linux 2.6.32/ Android 2.2
- Less Than 3 Watt Power Consumption
- Operating Temperature: W2: -40°C ~ 80°C, W1: -20°C ~ 70°C



Specifications

| System | |
|-----------------------------|--|
| Form Factor | 3.5" |
| Processor | TI OMAP™ 3503/3530 600 MHz |
| System Memory | Onboard 128/256 MB (Optional) LP DDR RAM |
| Ethernet | Davicom DM9000AEP, 10/100Base-TX, RJ-45 x 1 |
| Boot Loader | Microsoft Windows® CE 6.0 or Linux - Kernel 2.6.32 |
| Watchdog Timer | Generate a time-out system reset |
| Expansion Interface | Mini-Card (with USB interface only) x 2, Proprietary Expansion Slot x 1 |
| Battery | Lithium battery |
| Battery Charger | Linear tech LTC4100 |
| Power Requirement | +9V to +24V DC |
| Power Consumption (Typical) | TI OMAP™ 3530, 128/256 MB LP DDR, 0.24A@+12V |
| Board Size | 5.75"(L) x 4"(W) (146mm x 101.6mm) |
| Gross Weight | 0.88 lb (0.4 kg) |
| Operating Temperature | 32°F ~ 158°F (0°C ~ 70°C) -4°F ~ 158°F (-20°C ~ 70°C) for WiTAS 1 -40°F ~ 176°F (-40°C ~ 80°C) for WiTAS 2 |
| Storage Temperature | -40°F ~ 176°F (-40°C ~ 80°C) |
| Operating Humidity | 0% ~ 90% relative humidity, non-condensing |
| MTBF (Hours) | 100,000 |
| Display | |
| Chipset | TI OMAP™ 3 |
| Resolutions | Up to 1280 x 768 for LCD Up to 1024 x 768 for CRT |
| LCD Interface | Up to 18-bit single channel TTL/LVDS LCD |
| I/O | |
| Storage | 256 MB NAND Flash, SD, MicroSD |
| Serial Port | RS-232 x 1, RS-232/422/485 (auto flow) x 1, TTL UART x 1 |
| Universal Serial Bus | USB2.0 Host x 2, USB2.0 Client x 1 |
| Digital I/O | Supports 8-bit (Programmable) |
| Audio | Line-in, Line-out, Mic-in, Speaker-out (1W Amplifier) |
| Touch Screen | Supports 4-wire resistive touch screen |
| Keypad Interface | Supports 6 x 6 matrix keypad |
| Motion Sensor | ST LIS35DE |

Board Packing List

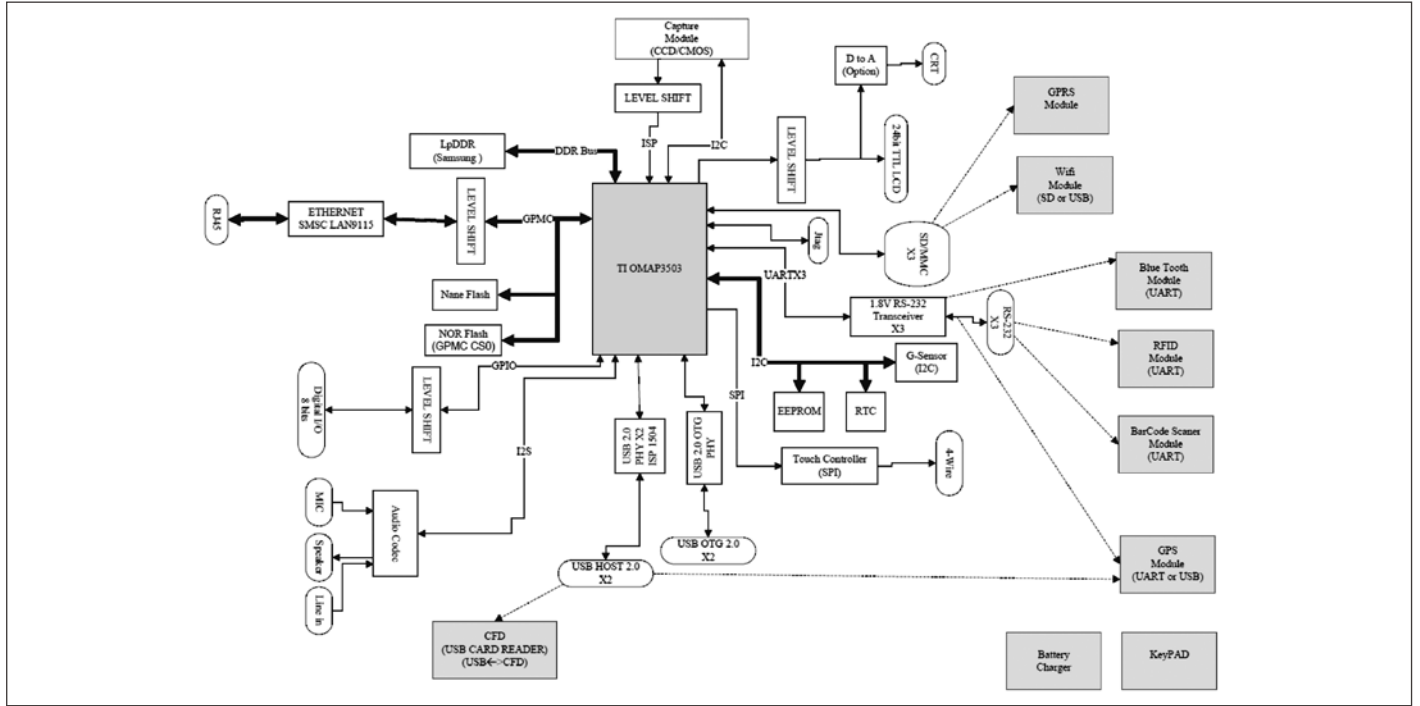
- 965766600
Jumper Cap
- Product CD
- GENE-1350

Optional Accessories

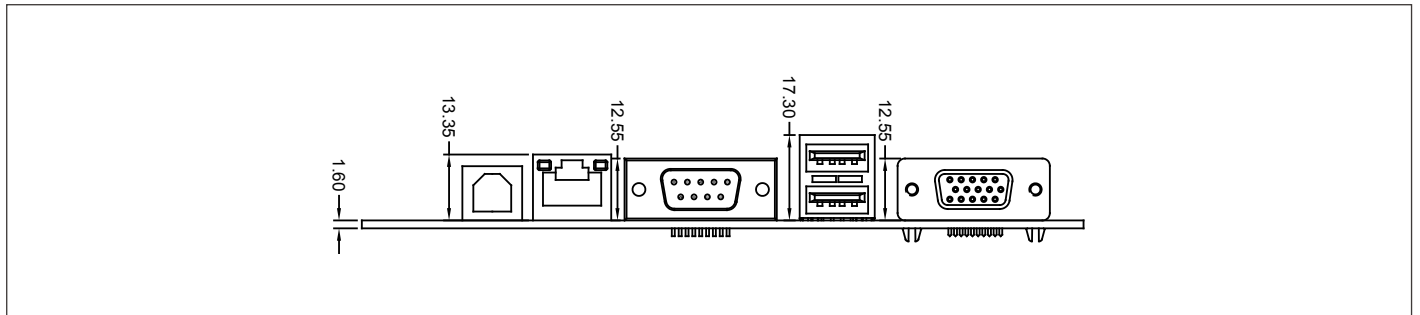
- 1701090150
COM Port Cable, Length 15cm
- 1702002010
Big 4P Power Input Cable, Length 10cm
- 1709100254
Audio Cable, Length 25cm
- 1700050207
USB Cable, Length 20cm

GENE-1350

Block Diagram



Dimension Unit: mm



Board Ordering Information

| Part Number | CPU | Memory | Storage | OS | Display | LVDS | LAN | USB2.0 | COM | Touch | Expansion Slot | Power | Temp |
|--------------------|-----------------------|--------|---------|-----------|----------------|-----------------------|--------|---------------------------|--|------------------|---|--------|----------------------|
| TF-GENE-1350-A10 | TI OMAP™ 3530 600 MHz | 128 MB | 256 MB | WinCE 6.0 | TTL, LVDS, CRT | 18-bit Single Channel | FE x 1 | USB Host x 2, USB OTG x 1 | TTL UART x 1, RS-232/422/485 x 1, RS-232 x 1 | 4-wire resistive | Mini-Card x 2, SIM slot x 1, Proprietary Expansion slot x 1 | 9V~24V | 0°C ~ 70°C |
| TF-GENE-1350W1-A10 | TI OMAP™ 3530 600 MHz | 128 MB | 256 MB | WinCE 6.0 | TTL, LVDS, CRT | 18-bit Single Channel | FE x 1 | USB Host x 2, USB OTG x 1 | TTL UART x 1, RS-232/422/485 x 1, RS-232 x 1 | 4-wire resistive | Mini-Card x 2, SIM slot x 1, Proprietary Expansion slot x 1 | 9V~24V | WITAS 1 -20°C ~ 70°C |