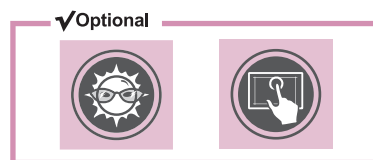




### Features

- All-in-one design with TI - Sitara AM3517 Cortex A8 Processor
- Built in Wi-Fi+BT SIP module
- Stackable expansion capability
- OS: Linux 2.6.32; WinCE 6.0; Android 2.3.4
- Supports 2 LAN ports
- High brightness, sunlight readable LCD display options
- Optional four-wire resistive touch sensor



### System Spec

|             |                                                                                                                                                                                                                                                                                                                            |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor   | TI-Sitara AM3517 Cortex-A8 processor 600 MHz<br>NEON SIMD coprocessor and Vector FP coprocessor                                                                                                                                                                                                                            |
| Main Memory | 256 MB DDR2 DRAM system memory,<br>2 GB NAND flash memory (4 GB optional)                                                                                                                                                                                                                                                  |
| Graphics    | Integrated Power-VR SGX 3D graphics accelerator                                                                                                                                                                                                                                                                            |
| LCD         | Supports 24-bit TTL LCD in resolution of 800x600<br>Size: 8.0 inch, 4:3 panel<br>Resolution: 800 x 3 (RGB) x 600<br>Back light: LED<br>Contrast ratio: 500 typical<br>Standard brightness: 250 Cd/m <sup>2</sup> typical (without touch)<br>Optional brightness enhancement: 800 Cd/m <sup>2</sup> typical (without touch) |
| Storage     | MicroSD slot x1                                                                                                                                                                                                                                                                                                            |

### Power Supply

|                   |                                                                                                      |
|-------------------|------------------------------------------------------------------------------------------------------|
| DC Input          | DC input at 5V DC +/- 5%<br>(DC power must be supplied from an ADLink IO board or external DC board) |
| Power Consumption | Fully loaded: 13 W                                                                                   |

### Environmental

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Operating Temperature               | 0°C to 60°C                     |
| Storage Temperature (Non-Operation) | -30°C to 80°C                   |
| Humidity                            | 0 - 90% @ 40°C (non-condensing) |
| Certification                       | CE and FCC CLASS A/B Compliance |

### I/O Interface

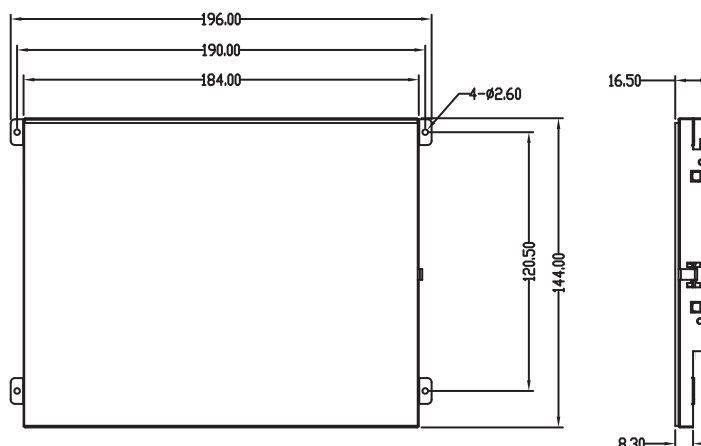
|                   |                                 |
|-------------------|---------------------------------|
| Ethernet          | 2x 10/100 Mbps LAN              |
| Serial Port       | 1x COM at RS232 level           |
| Wi-Fi / Bluetooth | IEEE 802.11b/g/n & BT 2.1 + EDR |
| CAN BUS           | High-End CAN 2.0b Controller    |
| USB Port          | 3x USB 2.0 ports                |
| Audio Port        | 1x Line in / 1x Line out        |

### Expansions (Optional)

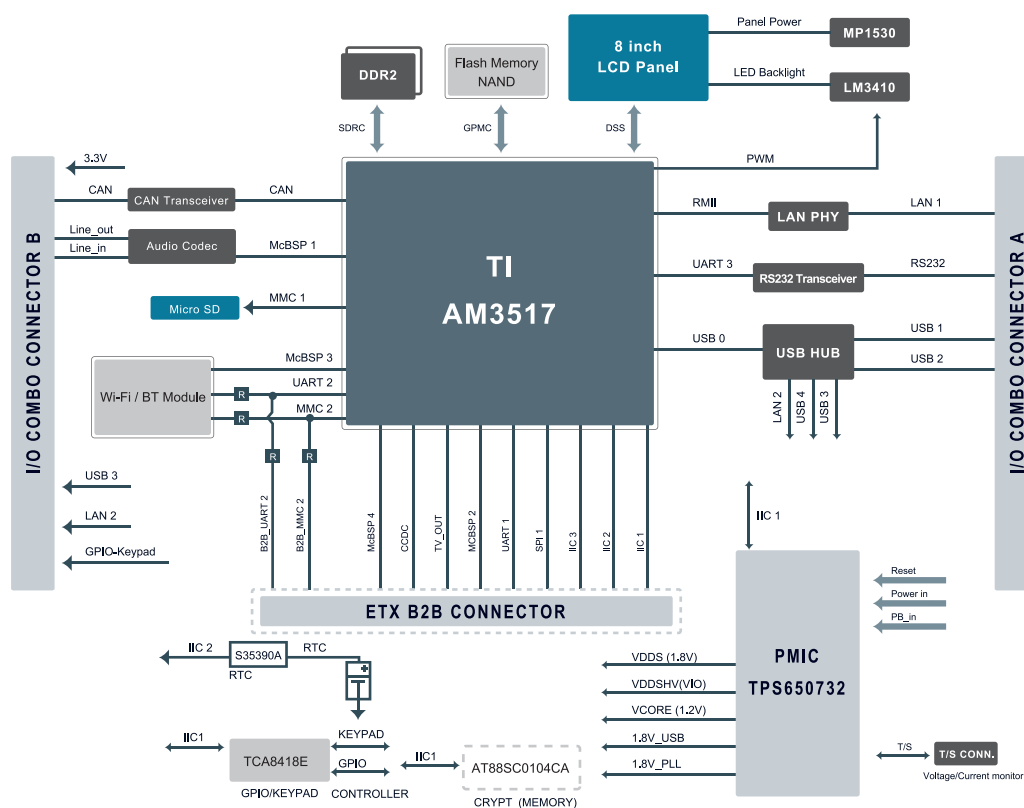
|                  |                                                                                                                                              |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| CCDC Bus         | Video input bus                                                                                                                              |
| Video Out        | Integrated TV-out supports S-Video signal                                                                                                    |
| MMC/SD/SDIO      | Supports MMC/SD/SDIO interface (if on board WLAN/BT module not used)                                                                         |
| UART             | Supports two UARTs (one UART if on-board WLAN/BT module is in use)                                                                           |
| I <sup>2</sup> C | I <sup>2</sup> C1, I <sup>2</sup> C <sup>2</sup> , and I <sup>2</sup> C3 interface on B2B connector                                          |
| McSPI            | Supports Multi-channel Serial Port Interface (McSPI), up to two peripherals                                                                  |
| McBSP            | Supports Multi-channel Buffered Serial Port, provides a full-duplex direct serial interface between the device and other devices in a system |

## ➤ Dimensions / Weight

Units: mm / g    196 mm x 144 mm / 516.6 g



## ➤ CPU Block Diagram



## ➤ Ordering Information

### Smart Panel (8" 4:3 smart panel with on board 256 MB DRAM and 2 GB flash)

| Model Number  | Description/Configuration                                                    |
|---------------|------------------------------------------------------------------------------|
| SP-860-2562SR | Optical-enhanced LCD display with four-wire resistive touch sensor, Linux OS |
| SP-860-2562AR | Standard LCD display with four-wire resistive touch sensor, Linux OS         |
| SP-860-2562AN | Standard LCD display without touch sensor, Linux OS                          |

### Starter Kits

| Model Number      | Description/Configuration                                                                                               |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| SP-860-2562SR-EWP | SP-860-2562SR starter kit with I/O board 1 (SP-860-IO1), I/O board 2 (SP-860-IO2), cable kits, stand, and power adaptor |
| SP-860-2562AR-EWP | SP-860-2562AR starter kit with I/O board 1 (SP-860-IO1), I/O board 2 (SP-860-IO2), cable kits, stand, and power adaptor |

### Accessories (optional)

| Model Number | Description/Configuration                                                                                                           |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
| SP-860-IO1   | Vertical connectors I/O board 1 of DC 5V in, 1x COM (at RS232 level), 2x USB, 1x LAN RJ45, power button, reset button and power LED |
| SP-860-IO2   | Vertical connectors I/O board 2 of 1x LAN RJ45, Audio Line in, Audio Line out, 1x CAN bus, and 1x USB                               |

© Please refer to the ADLINK website ([www.adlinktech.com](http://www.adlinktech.com)), for the latest ordering information.