# SP-15LW03

## 15.6" Smart Panel with Intel® Atom™ D525 Processor

## > Features

- Intel® Atom™ Processor D525 (512KB x2 L2 Cache, 1.8 GHz)
- 15.6" LCD display with 1366 x 768 resolution
- 1 x 1.8" SATA socket for HDD or SSD storage
- 2 x mini PCIe and 1 x SIM card slots for function expansion (such as WiFi/BT or 3G module)
- 5-wire resistive touch sensor
- 2 x GbE supported
- 1 x DDR3 SO-DIMM socket supports up to 2GB

Intel D525 | 2GB DDR3 | 15.6" | 1.8" SATA socket | mini PCIe x2 | x2

## > System Spec

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|---|---|
| Processor | Intel® Atom Processor D525 (512 KB x 2 L2 Cache, 1.8 GHz) |
| South Bridge | ICH8-M |
| Super I/O | ITE IT8781F |
| Main Memory | 1x DDR3 SO-DIMM socket supports up to 2 GB @ 800 MT/s |
| Graphic | Intel® integrated graphic chipset<br>Supports CRT/LCD dual view  CRT resolution up to 2048 x 1536 |
| LCD | Size: 15.6-inch, 16:9 panel<br>Resolution: 1366 x 768, RGB, Transmissive<br>Backlight:  LED<br>Contrast Ratio: 400:1 typical<br>Luminance: 200 Cd/m2 typical (without touch sensor attached) |
| Storage | 7+9 pin onboard  SATA connector for 1.8" HDD/SSD<br>SATA signals on I/O connector for external HDD storage |
| Touch Sensor | Optional five-wire resistive touch sensor |
| Audio Ports | Mic-in / line-out / stereo speaker out |
| LAN | 2x 10/100/1000 Mbps ports |
| USB Ports | 2x USB 2.0 for mini PCIe card slots / 6x USB 2.0 available on I/O connectors |
| PCI Express Mini Card Slot | 1 full length mini PCIe card add-on slot with USB 2.0/<br>PCI Express signals and with SIM socket<br>1 full length mini PCIe card add-on slot with USB 2.0 and<br>PCI Express signals |

## > I/O Interface

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|---|---|
| Ethernet | 2 GbE signals |
| Serial Ports | 2 COM ports at RS232 level |
| USB Ports | 6 USB 2.0 ports |
| Display Output | CRT Port |
| Misc. Signals | Power Button / Reset / HDD LED / LAN ACT/ LINK LED / GPIO |

## > Power Supply
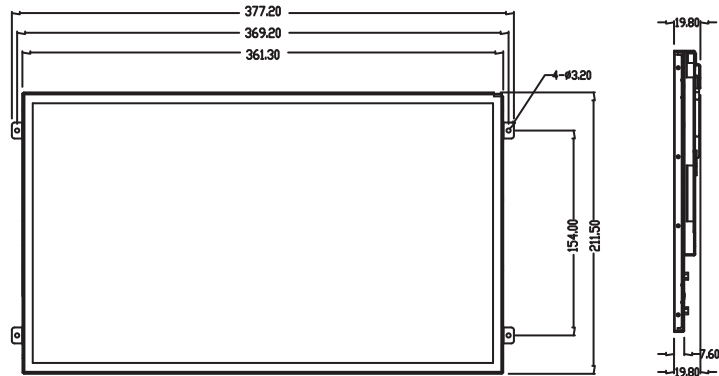
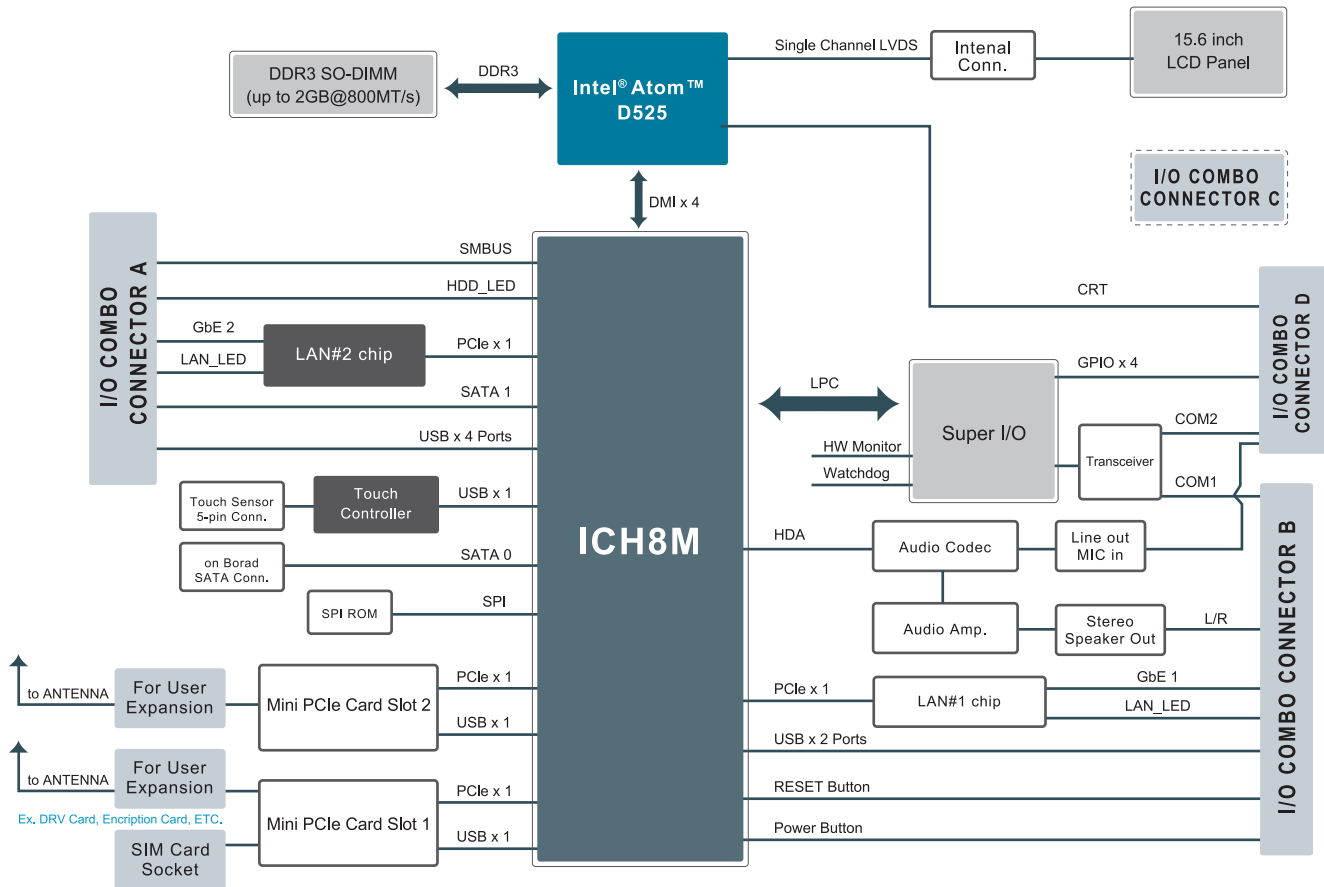| | |
|---|---|
| DC Input | DC input at 19V DC +/- 10%<br>(DC power must be supplied from an ADLINK IO board or external DC board) |
| Battery Pack (optional) | Single Lithium-Ion Battery, 3S2P<br>Output: 11.1V, 5200 mAh<br>Backup power for AC power loss<br>(Battery pack must be connected with an ADLINK IO board or external DC board) |
| Power Consumption | Fully loaded: 31.7 W |

## > Environmental

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|---|---|
| Operating Temperature | 0°C to 60°C |
| Storage Temperature (Non-Operation) | -20°C to 70°C |
| Humidity | 0 - 90% @ 40°C (non-condensing) |
| Certification | CE and FCC CLASS A/B Compliance |

## Dimensions / Weight

| Units: mm / g | 377.2 mm x 211.5 mm / 2084.2 g |
|---|---|



## CPU Block Diagram



## Ordering Information

**Smart Panel**

| Model Number | Description/Configuration |
|---|---|
| SP-15LW03-NNAR | SP-15LW03-NNAR(G) Smart panel with 5-wire resistive touch sensor |

**Starter Kit**

| Model Number | Description/Configuration |
|---|---|
| SP-15LW03-NNAR -EWP | SP-15LW03-NNAR-EWP(G)Starter kit of SP-15LW03-NNAR with I/O board 1 (SP-15LW03-IO1), fan and heat-pipe dissipator, 2Gb DDR3 module, 1.8" 32Gb SSD, cable kits, stand, and power adaptor |

**Accessories (optional)**

| Model Number | Description/Configuration |
|---|---|
| SP-15LW03 I/O1 Kit | Including SP15LW03-IO1 Board: Right-angle connectors I/O board of 19V DC IN, Power button, 4x USB, 2x LAN RJ45, VGA, and 2x COM port (RS232), 7+15P SATA connector and I/O cables |
| Power Kit | AC-DC ADAPTER 90W with US Power Cord 10A,125V |