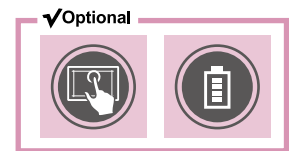




> Features

- Intel® Atom™ Processor D525 (512 KB x2 L2 Cache, 1.8 GHz)
- NVIDIA ION 2 GT218 GPU
- High resolution 1920 x 1080 15.6" LCD display
- 1x 1.8" SATA socket for HDD or SSD storage
- 2x mini PCIe and 1x SIM card slots for function expansion (such as WiFi/BT or 3G module)
- Optional five-wire resistive touch sensor
- Optional battery pack for AC power loss backup
- 2x GbE supported
- 1x DDR3 SO-DIMM socket supports up to 2 GB



> System Spec

Processor	Intel Atom Processor D525 (512 KB x 2 L2 Cache, 1.8 GHz)
South Bridge	Intel ICH8-M
Super I/O	ITE IT8781F
Main Memory	DDR3 SO-DIMM socket supports up to 2 GB @ 800MT/s 512 MB gDDR3 GPU RAM
Graphic	NVIDIA ION 2 GT218 graphics chipset Supports CRT/DVI/DisplayPort Supports dual 24 bit LVDS up to 1920 x 1280 resolution
LCD	Size: 15.6-inch, 16:9 panel Resolution: 1920 x 1080, RGB, Transmissive Backlight: LED Contrast Ratio: 400:1 typical Luminance: 300 Cd/m ² typical (without touch sensor attached)
Storage	7+9 pin onboard SATA connector for 1.8" HDD/SSD 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/ PCI Express signals and with SIM socket 1 full length mini PCIe card add-on slot with USB 2.0 and PCI Express signals

> Power Supply

DC Input	DC input at 19V DC +/- 10% (DC power must be supplied from an ADLINK IO board or external DC board)
Battery Pack (optional)	Single Lithium-Ion Battery, 3S2P Output: 11.1V, 5200 mAh Backup power for AC power loss (Battery pack must be connected with an ADLINK IO board or external DC board)
Power Consumption	Fully loaded: 47 W

> Environmental

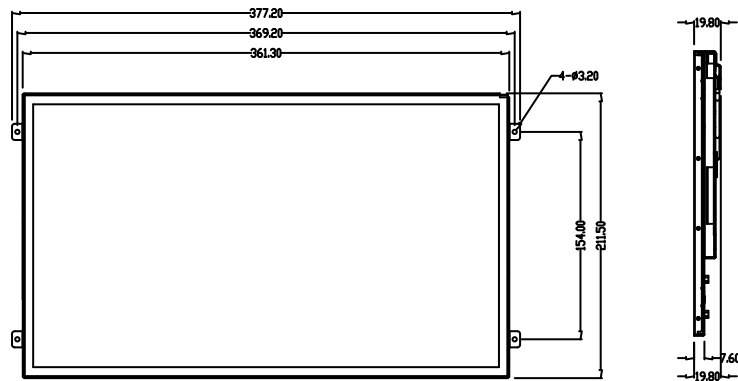
Operating Temperature	0°C to 60°C
Storage Temperature (Non-Operation)	-20°C to 70°C
Humidity	0 - 90% @ 40°C (non-condensing)
Certification	CE and FCC CLASS A/B Compliance

> I/O Interface

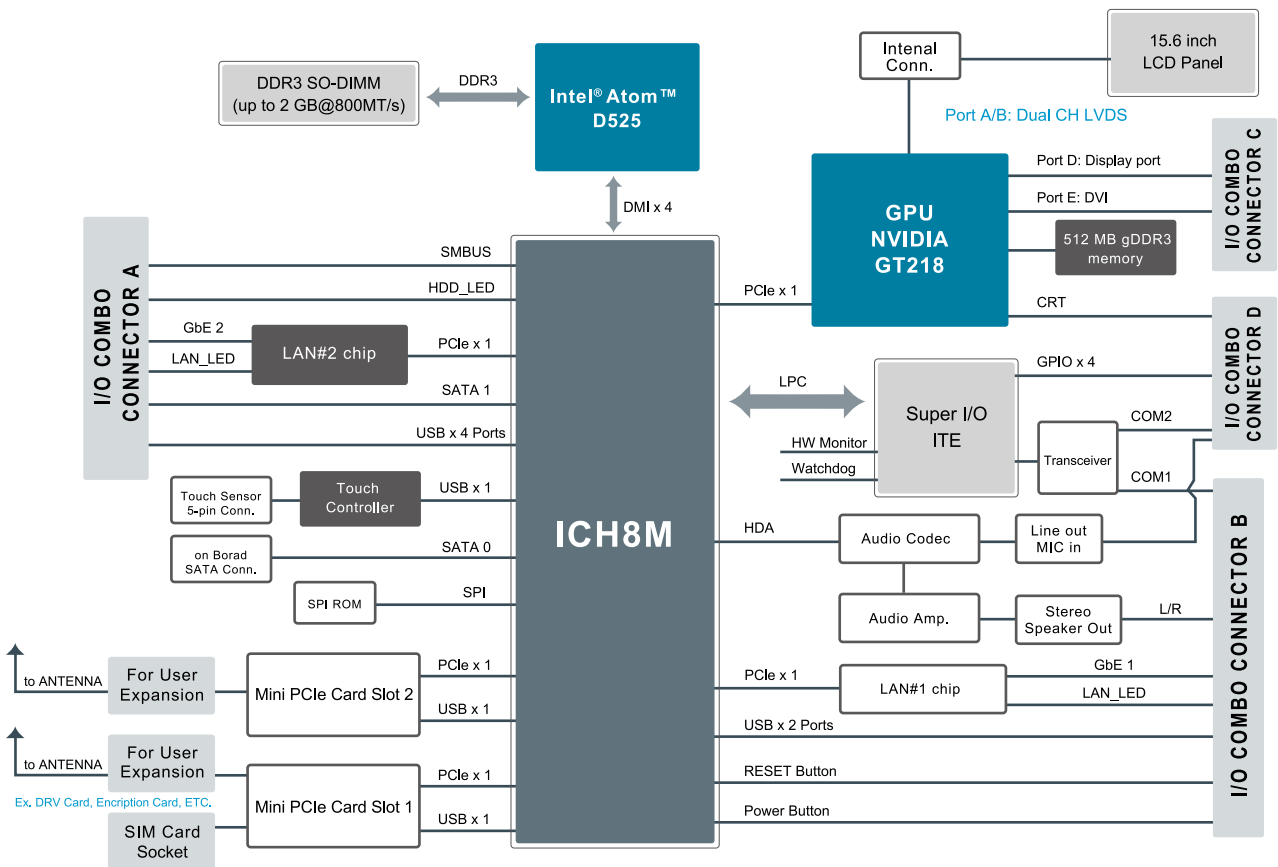
Ethernet	2 GbE signals
Serial Ports	2 COM ports at RS232 level
USB Ports	6 USB 2.0 ports
Display Output	CRT / DVI / DisplayPort
Misc. Signals	Power Button / Reset / HDD LED / LAN ACT/ LINK LED / GPIO

> 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-15W03-NNAR	SP-15W03-NNAR(EA)Smart panel with 5-wire resistive touch sensor

Starter Kit

Model Number	Description/Configuration
SP-15W03-NNAR-EWP	SP-15W03-NNAR-EWP(EA)Starter kit of SP-15W03-NNAR with I/O board 1 (SP-15W03-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-15W03-IO1	Right-angle connectors I/O board of 19V DC IN, Power button, 4x USB, 2x LAN RJ45, Display port, VGA, DVI, and 2x COM port (RS232), 7+15P SATA connector
SP-15W03 I/O Cable Kit	SP-15W03 I/O Cable Kit
AC-DC Adapter 90W	Input: 90~264V, 90W; Output: 19VDC/4.74A; Frequency: 47 - 63Hz; Efficiency: 86%; No power cord