

SP-15W03

15.6" Smart Panel with Intel® Atom™ D525 Processor and NVIDIA ION2 GT218 GPU



Features

- Intel® Atom™ Processor D525 (512 KB x2 L2 Cache, 1.8 GHz)
- NVIDIA ION2 GT218 GPU
- High resolution 1920 x 1080 15.6" LCD display
- 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
- Dual GbE supported



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

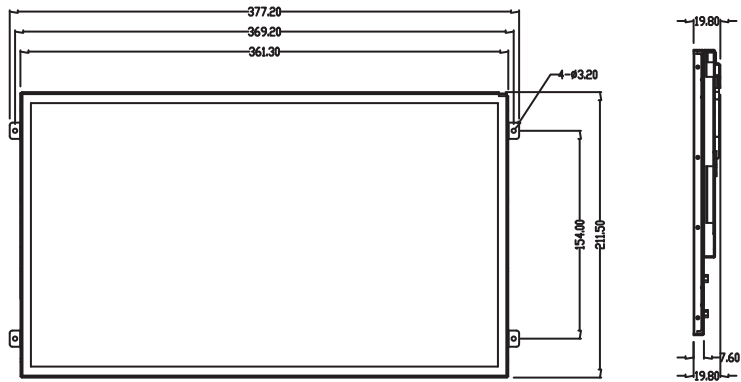
Operating Temperature	0°C to 60°C
Storage Temperature (Non-Operation)	-20°C to 70°C
Humidity	0 - 90% @ 40°C (non-condensing)
Certification	CE and FCC CLASS A/B Compliance

I/O Interface

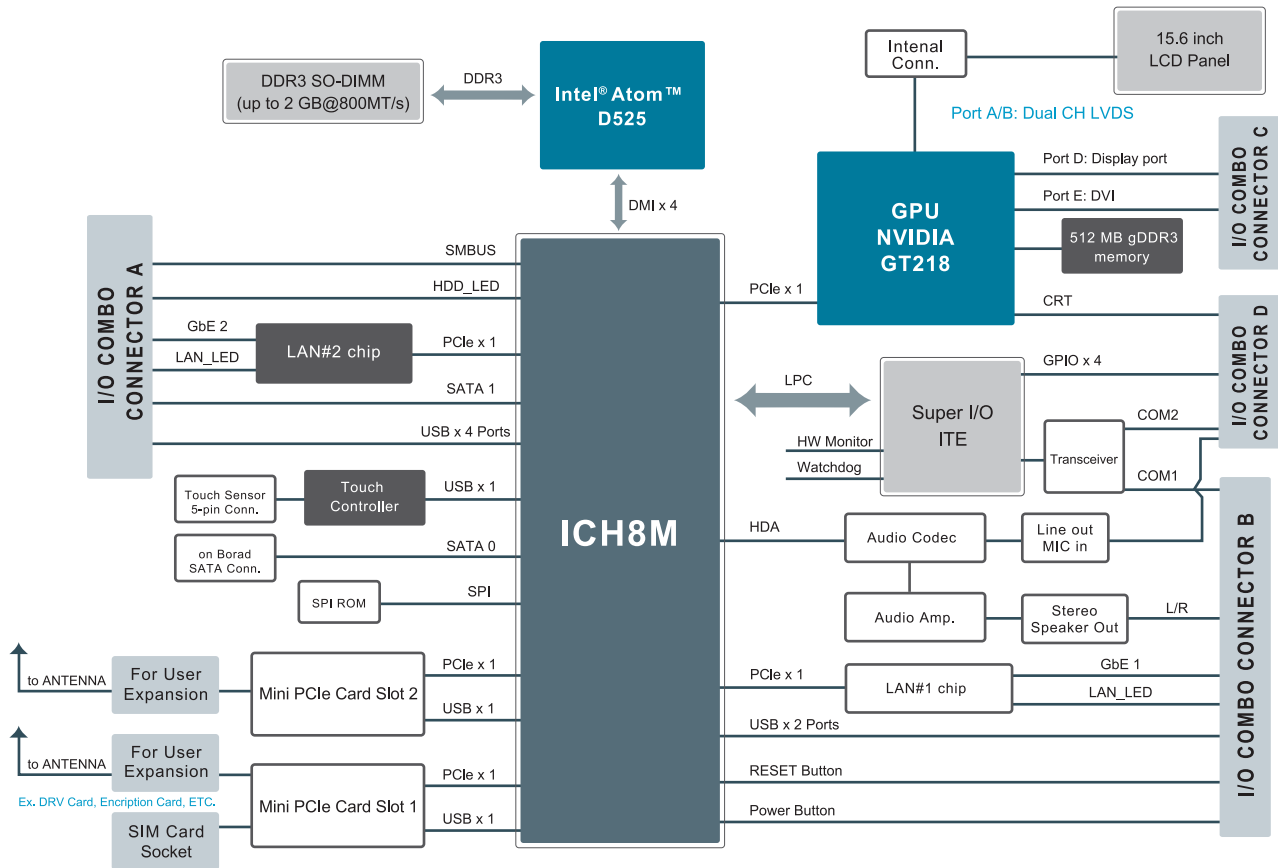
Ethernet	2 GbE signals
Serial Ports	2 COM ports at RS232 level
USB Ports	6 USB 2.0 ports
Display Output	CRT / DVI / DisplayPort
Misc. Signals	Power Button / Reset / HDD LED / LAN ACT/ LINK LED / GPIO

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(G)Smart panel with 5-wire resistive touch sensor

Starter Kit

Model Number	Description/Configuration
SP-15W03-NNAR-EWP	SP-15W03-NNAR-EWP(G)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 I/O1 Kit	Including SP15W03-IO1 Board: 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 and I/O cables
Power Kit	AC-DC ADAPTER 90W with US Power Cord 10A, 125V