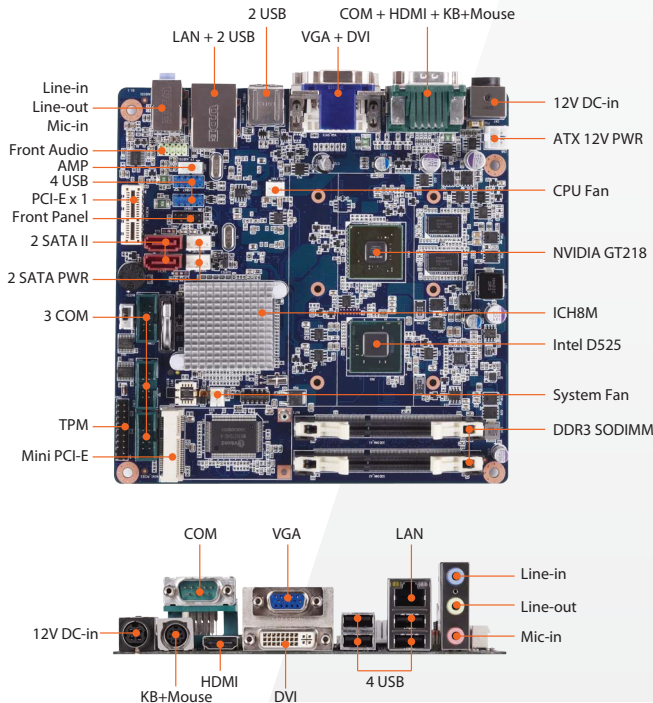


# ILNP-ION2

## Intel® Atom™ D525 with NVIDIA GT218 Mini-ITX Motherboard



### Features

- Supports Intel Dual-Core D525 CPU at Atom Platform
- Onboard integrated NVIDIA GT218 Graphics and DDR3 512MB Memory
- NVIDIA GT218 Graphics Engine supports HDMI 1.3, DirectX 10.1, OpenGL 3.0, Blu-ray, MPEG-2, MPEG-4, H.264, VC-1 and Full HD decode
- Supports multiple Dual Display functions : VGA + HDMI, VGA + DVI, DVI + HDMI
- Realtek ALC892 supports 5.1 Channel HD Audio
- Supports 12V DC-in Adaptor
- 2 SATA II, 1 PCI-E x 1, 4 COM, 8 USB 2.0, 1 Mini PCI-E, 1 CF Connector, 1 TPM Header

### Specifications

System	
<b>CPU</b>	Onboard Intel Atom D525 DC 1.8GHz Processor
<b>BIOS</b>	AMI 8Mb SPI
<b>System Chipset</b>	Intel ICH8M
<b>I/O Chip</b>	Winbond 83627DHG-A
<b>2nd I/O Chip</b>	Fintek 81216AD
<b>Memory Type</b>	Two 204-pin SODIMM sockets support up to 4GB Single Channel DDR3 800MHz SDRAM
<b>H/W Status Monitor</b>	Monitoring temperature, voltage and cooling fan status. Auto throttling control when CPU overheats.
<b>Expansion</b>	1 PCI-E x 1, 1 Mini PCI-E, 1 CompactFlash Type I/II Socket
<b>TPM</b>	1 TPM Header
<b>Power State</b>	S1, S3, S4, S5
<b>Wake up on LAN or Ring</b>	LAN (WOL) and Ring (WO)
<b>SmartFan Control</b>	Yes
I/O	
<b>MIO</b>	4 COM RS-232, 2 SATA II, 1 HDMI, 1 DVI, 1 VGA, 1 LAN, 1 PS/2 Keyboard+Mouse
<b>USB</b>	8 USB 2.0 (4 Rear, 4 Internal)

### Display

<b>Chipset</b>	NVIDIA GT218
<b>Display Memory</b>	Onboard DDR3 512MB Memory
<b>Dual Display</b>	VGA + HDMI, VGA + DVI, DVI + HDMI
<b>VGA</b>	Onboard, supports up to 2048 x 1536 (85Hz)
<b>DVI</b>	Onboard DVI-I, supports up to 1920 x 1200 (@60Hz)
<b>HDMI</b>	Onboard HDMI 1.3, supports up to 1920 x 1080

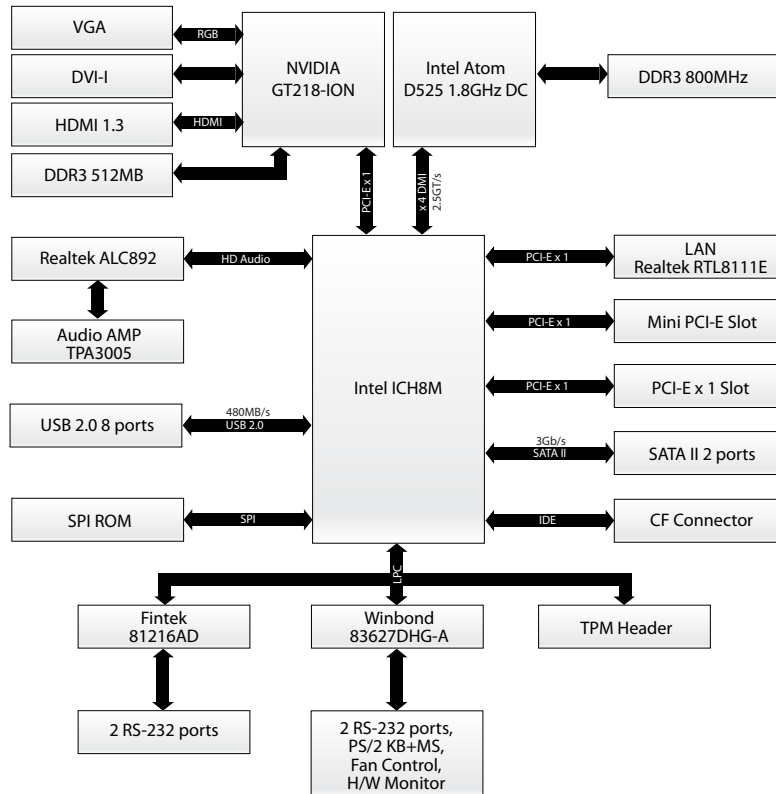
### Audio

<b>Audio Codec</b>	Realtek ALC892, 5.1 Channel HD Audio
<b>Audio Interface</b>	Line-in, Line-out, Mic-in, Front Audio Header
<b>Audio Amplifier (W)</b>	3W + 3W, TPA3005D2 Stereo
<b>Speaker Connector</b>	4-pin Header

### Ethernet

<b>LAN</b>	Realtek 8111E Gigabit LAN
------------	---------------------------

## Block Diagram



### Back Panel I/O Port

- 1 12V DC-in Connector (4-pin)
- 1 PS/2 Keyboard+Mouse (Through Y-Cable)
- 1 DVI Port
- 1 VGA Port
- 1 HDMI Port
- 1 COM RS-232 Port
- 4 USB 2.0/1.1 Ports
- 1 LAN RJ45 Ports
- 1 Audio I/O (3 Jacks)

### Internal I/O Connector

- 2 USB Connectors support 4 USB Ports
- 3 COM RS-232 Connector
- 2 SATA Connectors
- 2 SATA Power Connector (4-pin)
- 1 Front Audio Header
- 1 CPU Fan Connector (3-pin)
- 1 System Fan Connector (3-pin)
- 1 Clear CMOS Header (3-pin)
- 1 CF Connector
- 1 Mini PCI-E Connector
- 1 PCI-E x 1 Connector
- 1 AMP Speaker Header (4-pin)
- 1 12V ATX Power Connector (2x2-pin)
- 1 TPM Header (20-pin)

### Mechanical & Environmental

**Power Requirement** +12V  
2.43A

**Power Type** ATX (supports at AT Mode)

**Power Connector** 1 12V DC-in Power Connector,  
1 12V ATX Power Connector

**Operating Temperature** 0°C to 60°C (32°F to 140°F)

**Operating Humidity** 0% to 90% relative humidity, non-condensing

**Size (L x W)** 6.69" x 6.69" (170 x 170 mm)

**Weight** 1.23 lbs (0.56 Kg)