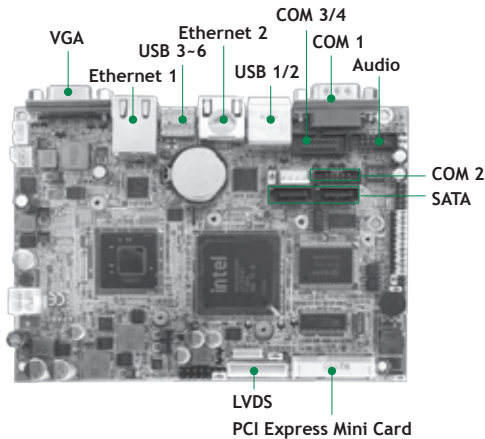


# CAPA801

Intel® Atom™ N455/ D425/ D525 3.5" Embedded SBC with Intel® ICH8M Chipset, LVDS VGA, Dual LANs & Audio

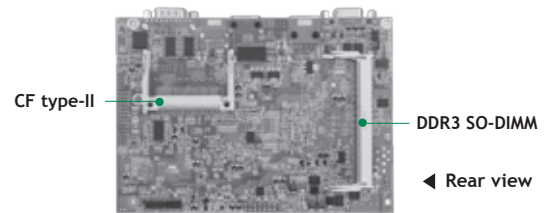


Atom™ N455/D425/D525  
2 G.E.  
DDR 3  
6 USB 2.0  
PCIe Mini Card  
CompactFlash™

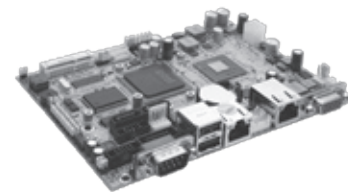
## Features



- Intel® Atom™ processor N455 (1.66 GHz), D425/ D525 (1.8 GHz)
- Intel® ICH8M chipset
- 1 DDR3 SO-DIMM supports up to 4 GB memory capacity
- 6 USB 2.0
- 4 COM ports
- PCI Express Mini Card expansion



◀ Rear view



◀ Side view

## System

CPU	Intel® Atom™ processor N455 1.66 GHz, D425 1.8 GHz single core or D525 1.8 GHz dual core onboard
System Memory	1 x 204-pin SO-DIMM supports DDR3-667/800 max. up to 4 GB (N455 supports DDR3-667 max. up to 2 GB. D425/D525 supports DDR3-800 max. up to 4 GB)
Chipset	Intel® ICH8M
BIOS	AMI
SSD	1 x CompactFlash™ type-II
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	1 x PCI Express Mini Card V1.2
Battery	Lithium 3V/220mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power ON function supported
Power Requirements	*Intel® Atom™ N455 @1.66 GHz, 1GB DDR3 Max. RMS: +12V @ 851mA *Intel® Atom™ D425 @1.8 GHz, 1GB DDR3 Max. RMS: +12V @ 1.077A *Intel® Atom™ D525 @1.8 GHz, 1GB DDR3 Max. RMS: +12V @ 1.145A
Size	146 x 104 mm
Board Thickness	1.6 mm
Operating Temperature	Standard: 0°C - +60°C (32°F - 140°F) Optional: -20°C - +70°C (-4°F - +158°F)
Relative Humidity	10% - 95% relative humidity, non-condensing

## I/O

MIO	3 x RS-232 (COM 2 - 4) ; with +5V/+12V powered 1 x RS-232/422/485 (COM 1) ; with +5V/+12V powered
SATA	2 x SATA-300
Hardware Monitoring	Detect system temperature, voltage and fan speed
Ethernet	1st port 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® 82567V 2nd port 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® 82583V
Audio	HD Codec audio as MIC-in/Line-in/Line-out/Speaker-out with Realtek ALC662
USB	6 x USB 2.0
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	8 channels IN/OUT programmable

## Display

Chipset	Intel® GMA 3150 graphics Core
Memory Size	Intel® DVMT 4.0 compliant
Display Interface	1 x VGA 1 x LVDS; 18-bit single channel

## Packing List

Standard		
Quick installation guide, user's manual/utility CD, cable		
Cable		
Part Number	Description	Qty
59380000300E	2 x COM w/ bracket P=1.27 x 2.54 L=300mm	1
59384500100E	Audio cable w/ bracket P=2,450mm	1
59382631000E	2 x USB 2.0 wafer cable w/ bracket 180mm	1

## Ordering Information

Standard	
CAPA801VGGA-N455 (P/N: E38E801100)	3.5" SBC with Intel® Atom™ processor N455, VGA/LVDS, 2 10/100/1000Mbps Ethernet and audio (fanless)
CAPA801VGGA-D525 (P/N: E38E801102)	3.5" SBC with Intel® Atom™ processor D525, (heatsink fan included) VGA/LVDS, 2 10/100/1000Mbps Ethernet and audio
Optional/MOQ	
CAPA801VGGA-D425 (P/N: E38E801101)	3.5" SBC with Intel® Atom™ processor D425, (heatsink fan included) VGA/LVDS, 2 10/100/1000Mbps Ethernet and audio
AX95601 (P/N: E395601100)	LVDS converter for scale up to 1920 x 1080 48bit
AX95601 (P/N: E395601101)	LVDS converter for pixel compensated to 1280 x 1024 48bit

\* All specifications and photos are subject to change without notice.  
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SBC Services and Solutions

System on Modules

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Nano-ITX

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix