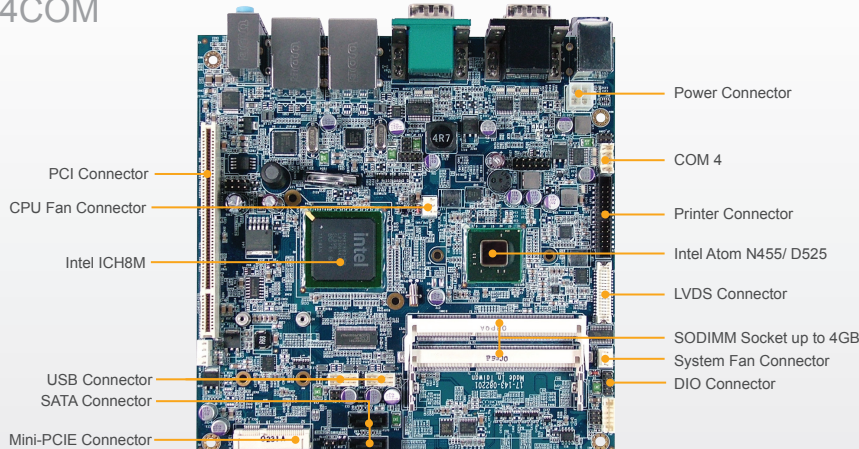


PMB-822LF



Mini ITX MB supports Intel® Atom™ N455 / D525 CPU with VGA/ LVDS/ Audio/ 2LAN/ 4COM



Features

- Intel® Atom™ N455 1.66GHz / D525 1.8GHz processor
- Memory Support DDR3 SO-DIMM 667/800 MHz SDRAM up to 4GB
- Support Dual Gigabit LAN
- Support 2 x SATAII, 8 x USB 2.0 port, 4 x Serial port and 1 x Parallel port
- Expansion Slot for one PCI and one Mini PCIe

Specifications

System

CPU Support	Intel® Atom™ Dual Core D525 Processor with 1MB L2 cache Intel® Atom™ Single Core N455 Processor with 512K L2 cache
CPU Frequency	N455 (1.66GHz) / D525 (1.8GHz)
Chipset	ICH8M
DRAM	2 x 204Pin SO-DIMM support 667MHz up to 2GB (N455), 667/800 MHz up to 4GB (D525)
BIOS	AMI BIOS
Watchdog	1~255 sec Watchdog timer selectable
Power Supply	DC 12V in
Power Consumption	+12V: 1.22A (CPU: Atom D525 1.8GHz)
Dimension	170mm x 170mm (6.69" x 6.69")
Certificate	FCC / CE

I/O Ports

SATA Interface	2 x SATA II (3.0Gb/s)
SSD	1 x Compact Flash slot (IDE)
Expansion BUS	1 x Mini PCIe
TPM	1 x TPM pin header on board
Serial Port	4 x COM port, COM 1, COM 2 & COM 4 for RS-232, COM 3 for RS-232/422/485
Parallel Port	1 x Parallel port (SPP / EPP / ECP)
Keyboard	Mini DIN connector
Mouse	Mini DIN connector
LAN	LAN1: Intel® 82567V (10/100/1000 Mbps) LAN2: Intel® 82583V (10/100/1000 Mbps) Support Wake-on-LAN with ATX power
Audio	HD Audio, Realtek ALC888S
USB	8 x USB2.0

Display

Graphics	Build-in N455 / D525 processor, share system memory; Support 1 x VGA 1 x LVDS
LCD Interface	18 bit LVDS

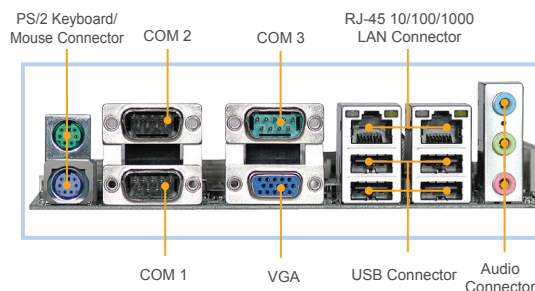
*Discrete graphic card is necessary for display if the chosen CPU doesn't have integrated graphics support.

Environment

Operation Temp.	0° ~ 60° C (32° ~ 140° F)
Storage Temp.	- 40° ~ 85° C (- 40° ~ 185° F)
Humidity	Operation humidity 20 ~ 90%, storage humidity 20 ~ 95%

* All information contained in this document is subject to change without prior notice. Please log on www.protech.com.tw to acquire latest information. For detail mechanics drawing, please contact our sales.

I/O Panel View



Ordering Information

Order No	Description
BM-0822RA-C1P	Intel® Atom™ N455 Mini ITX MB w/ VGA/ LVDS/ Audio/ 2LAN
BM-0822RA-00P	Intel® Atom™ D525 Mini ITX MB w/ VGA/ LVDS/ Audio/ 2LAN

Packing List

Part No	Description
10-611-0020023	Jumper (2.0mm)
80-010-07001212	I/O Shield
27-008-00001031	SATA cable
50-099-08220000	Quick Guide
	Driver CD

Ordering Accessories

Part No	Description
27-006-03306111	Dual USB cable w/ bracket
27-024-10306011	Single COM port cable w/ bracket
27-004-00005011	Printer port cable w/ bracket
27-008-00006031	SATA Power cable (300mm)