

# SOM304D3

## Features

- Vortex86DX3 1GHz
- Single and Dual Core Available
- Onboard 2GB DDR3
- 2x PCIe, 1x ISA, 1x SATA, 4x USB
- Operating in -20°C to +70°C
- EtherCAT Support



## Specifications

CPU	DM&P SoC CPU Vortex86DX3 1GHz, L1:16KB -Cache, 16KB D-Cache, L2 Cache: 256KB				
RAM	1/2GB DDR3 Onboard				
BIOS	AMI BIOS				
Watchdog Timer	Software programmable from 30.5 u sec. to 512 sec. x 2sets				
Display	Integrated 2D VGA chip with dual display support (VGA+TFT-LCD)				
	VGA: Maximum resolution up to 1920 x 1080 @60Hz				
	TFT-LCD: Maximum resolution up to 1024 x 768 @60Hz				
LAN	Integrated 10/100Mbps Ethernet				
I/O Interface	PCIe (Ver1.1) x2   ISA (16-bit) x1   SATA (Ver1.0) x1   USB (Ver2.0) x4   HD Audio x1   PS/2 Keyboard x1   PS/2 Mouse x1				
I/O for User's Definition	Port	Function			
	P0	GPIO-P0	COM5	SPI	
	P1	GPIO-P1	COM6		
	P2	GPIO-P2	COM7		
	P3	GPIO-P3	COM8	I <sup>2</sup> C	
	P4	GPIO-P4	COM1		
	P5	GPIO-P5	COM2	PWM	
	P6	GPIO-P6	COM3		
	P7	GPIO-P7	COM4	SD	
	P8	GPIO-P8	COM9		IDE
P9	GPIO-P9		PRINTER		
Power Requirement	Single Voltage +5V @1300mA (Typical)				
Operating Temperature	-20°C - +70°C				
Operating Systems	Free DOS   DOS6.22   PCDOS 7.1   DR-DOS   x-DOS   OS/2   Windows 7   Windows Embedded Standard 7 Windows Embedded Compact 7   Windows Embedded CE6.0   Windows XP Professional   Windows XP Embedded POS Ready(WePOS)   Embedded Linux   QNX   VxWorks   FreeBSD				
Dimension	70 x 70 x 10.5mm (Without cover)				
Weight	25g				

## Ordering Information

PART NO.	CPU* (MHz)	DRAM (DDR3)	Storage	Display	LAN	USB (Ver. 2.0)	PCIe	ISA	HD Audio	Keyboard	Mouse
SOM304D374EINE1-HS	1GHz	1GB	SATA	VGA LCD	1	4	2	1	1	1	1
SOM304D375EINE1-HS	1GHz	2GB	SATA	VGA LCD	1	4	2	1	1	1	1

\*Single and dual core are available

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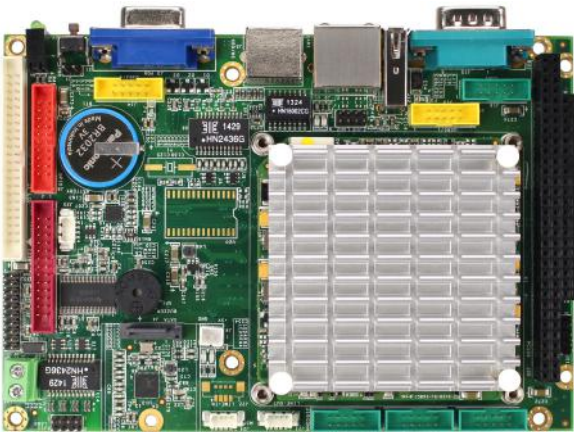
JTAG  
(For ICOP  
Use only

TOP VIEW



BOTTOM VIEW

## Carrier Boards for Function Test



VDX3-6726 (TOP VIEW)



VDX3-6726 (BOTTOM VIEW)



VDX3-6724 (TOP VIEW)



VDX3-6724 (BOTTOM VIEW)