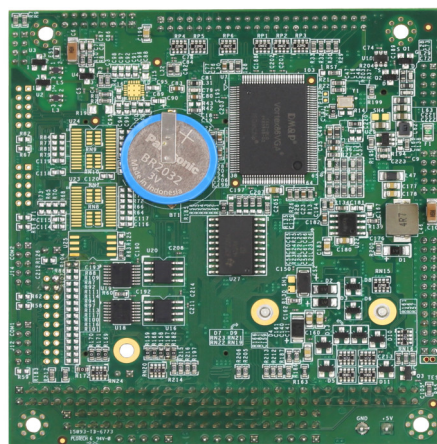
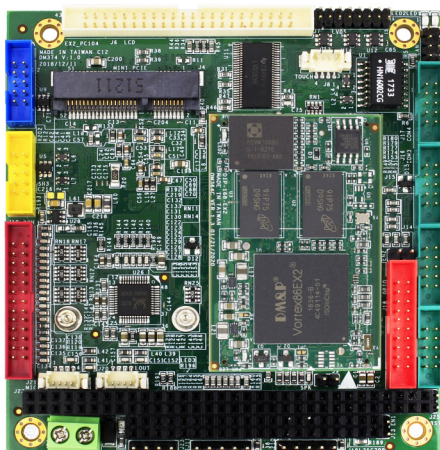


# VEX2-6454



## Specifications

CPU	DM&P Vortex86EX2 Processor 600MHz		
RAM	512MB/1GB DDR3 Onboard		
BIOS	Coreboot BIOS		
Expansion	ISA Bus x1 (Option)	MiniPCIe x1	
Display	Integrated 2D VGA chip with VGA and TFT Flat Panel Interface Support VGA: resolution up to 1024 x 768 @ 60Hz LCD: resolution up to 1024 x 768 @ 60Hz LVDS: resolution up to 1024 x 768 @ 60Hz, single channel 24-bit		
LAN	Integrated 10/100Mbps LAN x1		
Audio	Realtek ALC262	Buzzer	
Disk Support	Micro SD Card / eMMC (Option)		
I/O Interface	COM x4 (2x RS232/485) (Option) PS/2 x2 (Option)	USB (ver.2.0) x2 16-bit GPIO x1 (Option)	Parallel x1 4-wire touch x1 (Option)
Connectors	2.0mm 8-pin header for LAN x1 2.0mm 10-pin box header for COM x4 (Option) 2.0mm 2-pin header for Reset x1 2.0mm 10-header for 16-bit GPIO x1 (Option) Terminal block for Power input x1	2.0mm 10-pin box header for USB x1 2.0mm 44-pin box header for LCD x1 2.0mm 26-pin box header for Parallel x1 2.54mm 5-pin header for Keyboard x1 (Option) Standard PC/104 connectr x1 (Option)	2.0mm 10-pin box header for VGA x1 2.0mm 16-pin header for LVDS x1 2.54mm 5-pin header for Mouse x1 (Option) 2.54mm 4-pin header for Power output x1
Power Requirement	5VDC @ 660mA		
Operating Temperature	-20°C to +70°C -40°C to +85°C (Option)		
Dimension	90 x 96mm		
Weight	86g		
O/S Support	Windows Embedded Compact 7 DOS	Windows Embedded CE6.0 FreeBSD	QNX Linux

## Benchmark & Power Consumption Index



**Perfect Replacement Solution for Vortex86 DX Platform**

1. CPU instruction upgrade
2. DRAM from DDR2 to DDR3
3. Manufacturing process from 90nm to 65nm

## Ordering Information

PART NO.	CPU Speed	DRAM (DDR3)	Disk Support	Display	COM	USB	GPIO	Parallel	PS/2	Audio	16-bit ISA	MiniPCIe
VEX2-6454-2C4INE				VGA	2	2		1			1	1
VEX2-6454-4C4NE		1GB	Micro SD	LCD LVDS	4	2	16 bits	1	1			1
VEX2-6450-2C3INE	600MHz	512MB			2	2		1		Lin-out MIC-in	1	1
VEX2-6454-4C4EE		1GB	4GB eMMC	VGA LCD LVDS	4	2	16 bits	1	1			1