



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 |