



Specifications

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|------------------------------|--|
| SoC | DM&P SoC CPU Vortex86DX- 800MHz Real Time Clock with Lithium Battery Backup |
| Cache | L1:16K I-Cache, 16K D-Cache L2 Cache 128KB |
| Bus | 16-bit x-ISA interface |
| BIOS | AMI BIOS |
| System Memory | 256MB DDR2 Onboard |
| Watchdog Timer | Software programmable from 30.5 μ sec. to 512 sec. x 2 sets (Watchdog 1 fully compatible with M6117D) |
| Flash Disk Support | Onboard 4MB SPI Flash Disk Onboard EmbedDisk 512MB |
| I/O Interface | RS-232 port x2 (TTL x2) USB port (Ver2.0) x1 Parallel port x1 16-bit GPIO port x1 |
| Connectors | 2.0mm 64-pin header for 16-bit x-ISA interface x1 2.0mm 64-pin header for I/O interface x1 2.0mm 9-pin header for DMA x1 1.25mm 6-pin wafer for JTAG x1 |
| Power Requirement | Single Voltage +5V @ 400mA |
| Weight | 30g |
| Board Size | 65 x 45mm (2.56 x 1.77 inches) |
| Operating Temperature | -20°C ~ +70°C -40°C ~ +85°C(Optional) |

Mity-SoC Module

Mity-SoC Module: VDX-6319RD-FB-D (65 x 45mm) is designed as the kernel of your own application, which integrates the Vortex86DX CPU, onboard 256 DDR2, EmbedDisk-512/1G/2GB, BIOS and multi I/O. The I/O interface of Mity-SoC are 64-pin (2 x 32, pitch 2.0mm) connector x2; one is for x-ISA bus, another is for all I/O functions which including RS-232, Printer, IDE, and GPIO.

For assisting users easily use our Mity-SoC Module, ICOP provides complete development kit of Mity-SoC Development Board and Mity-SoC VGA/LCD Development Kit for Mity-SoC Module.

We also supply our customers with referential circuit diagram for easing user's effort during development process. Meanwhile, you can design your own based board which only equips I/O functions you need.

Please visit our website for getting further information you need:

<http://www.dmp.com.tw/tech/vortex86dx/>

You also can contact us for getting referential circuit drawing: info@icop.com.tw

Mity-SoC CPU Module Ordering Selection

| Ordering Type No. | SST-512MB | SPI-4MB | TTL | RS-232 |
|-------------------|-----------|---------|-----|--------|
| VDX-6319RD-FB-A | V | | V | |
| VDX-6319RD-FB-B | V | | | V |
| VDX-6319RD-FB-C | V | V | V | |
| VDX-6319RD-FB-D | V | V | | V |

Packing List

- VDX-6319RD-FB-D x1

Ordering information

- **VDX-6319RD-FB-D** Vortex86DX Mity-SoC CPU Module with 256MB DDR2
- **VSX-6119-1** Mity-SoC Development Board
- **ICOP-6019-VGA** Mity-SoC VGA/LCD Development Kit