



Unit: mm

## Specifications

<b>SoC</b>	DM&P SoC CPU Vortex86DX- 800MHz Real Time Clock with Lithium Battery Backup
<b>Cache</b>	L1:16K I-Cache, 16K D-Cache L2 Cache 128KB
<b>Bus</b>	16-bit x-ISA interface
<b>BIOS</b>	AMI BIOS
<b>System Memory</b>	256/512MB DDR2 Onboard
<b>Watchdog Timer</b>	Software programmable from 30.5 $\mu$ sec. to 512 sec. x 2 sets (Watchdog 1 fully compatible with M6117D)
<b>Flash Disk Support</b>	Onboard 4MB SPI Flash Disk Onboard EmbedDisk 128 / 256 / 512MB
<b>I/O Interface</b>	RS-232 port x2 USB port (Ver2.0) x1 Parallel port x1 16-bit GPIO port x1
<b>Connectors</b>	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
<b>Power Requirement</b>	Single Voltage +5V @ 370mA
<b>Weight</b>	30g
<b>Board Size</b>	65 x 45mm (2.56 x 1.77 inches)
<b>Operating Temperature</b>	-20°C ~ +70°C -40°C ~ +85°C(Optional)

## Mity-SoC Module

Mity-SoC Module: VDX-6319-F-D (65 x 45mm) is designed as the kernel of your own application, which integrates the Vortex86DX CPU, onboard 256/512MB DDR2, EmbedDisk-128/256/512MB, 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](mailto:info@icop.com.tw)

## Mity-SoC CPU Module Ordering Selection

Ordering Type No.	SST-128MB	SPI-4MB	TTL	RS-232
VDX-6319-F-A	V		V	
VDX-6319-F-B	V			V
VDX-6319-F-C	V	V	V	
VDX-6319-F-D	V	V		V

## Packing List

- VDX-6319-F-D x1

## Ordering information

- **VDX-6319-F-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