Specifications

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 30.5μ 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-6319D-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-6319D-FB-A	V		V	
VDX-6319D-FB-B	V			V
VDX-6319D-FB-C	V	V	V	
VDX-6319D-FB-D	V	V		V

Packing List

• VDX-6319D-FB-D x1

Ordering information

• **VDX-6319D-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