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Products

Computer-On-Module's

CM-X270

CM-X255

CM-iGLX

CM-F82

CM-i686M

CM-i686B

CM-iVCF CM-i886

(NFND) CM-i586

(NFND) PC/104+ &

ATX boards

SBC-X270

SBC-X255

SBC-i686

SBC-iVCF

SBC-i886

(NFND)

ATX

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SBC-iVCF Board









With front panel

Without front panel

With interface cables

SBC-iVCF Highlights

- Single Board Computer implemented by combination of **CM-iVCF** module and SB-iVCF baseboard. Two form-factor options:
 - Standard PC/104+ form
 - Extended PC/104+ with front panel
- VIA C3/C7 CPU architecture, up to 1000 MHz
- 64 256 MB DDR
- 32 512 MB Flash Disk
- PCI and ISA expansion buses in PC/104+ format
- SXGA graphics controller. Connectors for LCD panel, CRT monitor and TV.
- Four USB-2 ports
- UART's with RS232, RS485, RS422 & TTL driver options
- PS/2 keyboard and mouse interfaces
- Single or dual 100Mb Ethernet ports (optional)
- Sound I/O
- Touchscreen interface
- · High speed hard disk interface through IDE (UDMA133) and SATA
- Single or Dual Card Bus / PCMCIA slots (optional)

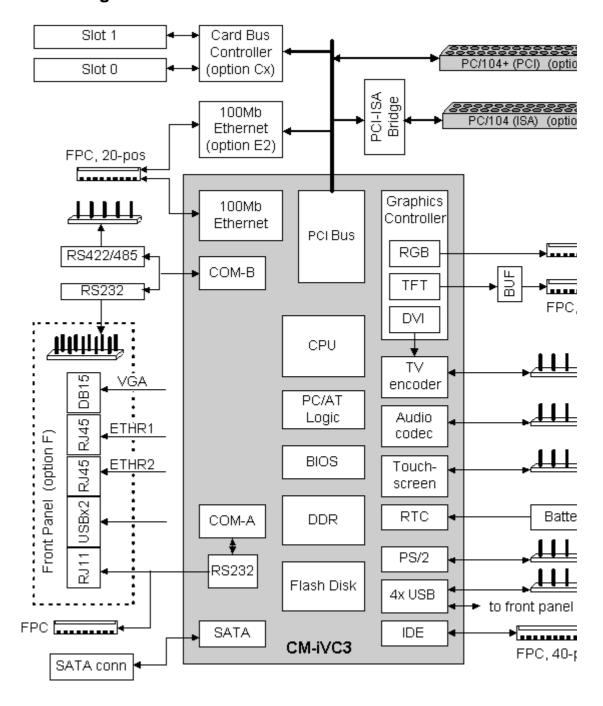
The SBC-iVCF is a standard PC/10 single board computer. It is impleme iVCF module providing most of the 1 SB-iVCF carrier board providing cor several additional functions. The ric of the SBC-iVCF is customizable ac price / performance targets of the us application.

Unique mechanical design of SBC-i selection between two popular form standard PC/104+ with headers, or PC/104+ with front panel connector:

The SBC-iVCF contains a PC/104+ connectors which opens it to the wic standard peripheral cards. Furtherm iVCF contains a PCMCIA / Card Bu and slots. A PCMCIA card may be secured in the slot, with no additional means. Off-the-shelf PCMCIA modu extend the system with capabilities: larger solid state disk, modem, and

For more information see **Developer Resources** page.

Block Diagram



SBC-iVCF Features

"SB Option" column specifies the P/N code of SB-iVCF required to have the particular feature. column specifies the P/N code of CM-iVCF required to have the particular feature. The SBC-iV(combination of features provided by the attached CM-iVCF and features implemented on SB-iV particular feature, both CM and SB options of that feature must be implemented.

"+" means that the feature is always available, regardless of P/N code.

Feature	Specification
CPU	

DRAM Flash Disk	See Features List of CM-iVCF module	
COM 1	RS-232 levels. Interface options: - FPC connector >> cable >> DB-9 module - RJ11 connector on front panel	
COM 2	RS232 or RS422/485 drivers. Interface through 100-mil header on front panel	
Harddisk	PIO and UDMA-133 modes. IDE and S-ATA interfaces: FPC connector >> cable >> standard 40-pin IDE header	
Ethernet	One or two 100Mb ports. RTL8139 controller. Interface options: - FPC conn >> cable >> module with RJ45 conn and LEDs RJ45 connectors and LEDs on front panel	
CRT Monitor	Interface options: - FPC connector >> cable >> module with HD15 VGA conn HD15 VGA connector on front panel	
LCD Panel	51-pos FPC connector for interface to TFT panels	
PS/2	Headers for PS/2 cable/connector	
PCMCIA / Card Bus	TI PCI1520 controller. Support for 16-bit PCMCIA and 32-bit CardBus standards. Single or dual PCMCIA / Card Bus slot with card guides, for cards type I, II and III.	
USB	4 x USB-2 ports, 480 Mb/s. Interface options: - Headers to USB cable with connector (2 ports) - USB connectors on front panel (2 ports)	
Sound	Header for standard cable/connectors for Microphone (mono), Line input and Speakers (stereo)	
Touchscreen	Header for interface to resistive touch screens	
PC104	ISA bus through standard PC/104 connector	
PC104+	PCI bus through standard PC/104+ connector	

Electrical, Mechanical and Environmental Specifications

Power Supply	5.0V @1A and 3.3V @1A (typical)
Dimensions	Without front panel - 96 mm x 91 mm With front panel - 111 x 91 mm Height ranges from 10 mm to 30 mm, depending on the connectors ar assembled. Height specified includes the CM-iVCF module.
Operation temp (case)	Commercial: 0° to 70° C Extended: -20° to 70° C Industrial: -40° to 85° C. Click for availability note
Weight	100 - 300 gram, depending on connectors and heatsink assembling.
Storage temperature	-40° to 85° C
Relative humidity	10% to 90% (operation) 05% to 95% (storage)
Shock	50G / 20 ms
Vibration	20G / 0 - 600 Hz
MTBF	> 100,000 hours

For more information see:

- SB-iVCF Reference Guide

- <u>Developer Resources</u>

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