

CM-i.MX31

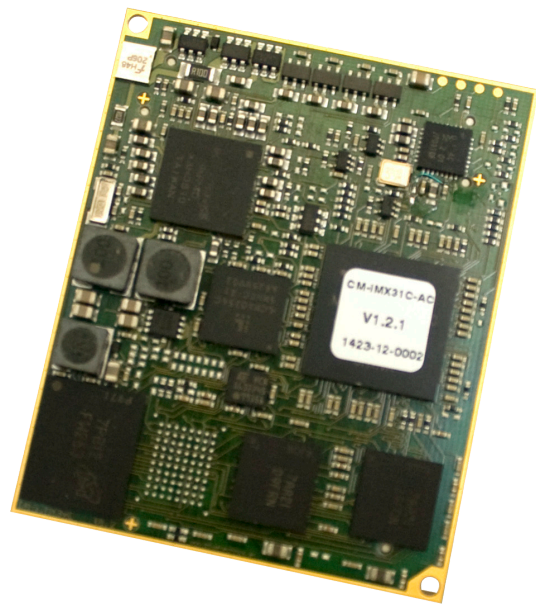
i.MX Core Module

The CM-i.MX31C is based on Freescale's high performance i.MX31 mobile processing platform, incorporating an ARM11™ core and VFP (floating point Unit), as well as the most complete list of on-chip peripherals. The module is available either on 400 balls (CM-i.mx31B versions for BGA) or on 4x 100 pin Connectors (CM-i.mx31C versions Connector). With the MC13783 audio and power management chip, DDR-RAM, NAND and NOR Flash devices, the module is the world's smallest, fully featured mobile platform reference design suitable for demanding multimedia or industrial applications and designed for extended battery life and very low power dissipation applications. The connector version also includes an Ethernet Controller and Intel Strata Flash.

Features

CPU	Freescale i.MX31 up to 532 MHz	
RAM	64-256MB Mobile DDR-RAM, 16MB PS-RAM (Spansion)	
FLASH	8-32MB NOR / up to 256MB NAND	
INTERFACES	CAMERA	1
	LCD	1
	ETHERNET	1x10/100MBit Ethernet PHY
	SSI	1
	SDCARD	2
	SPI	1
	TWI/I²C	1
	UART	1
	USB 2.0	1 (OTG PHY)
	AUDIO	Headphones, Microphone, LineOut
SOFTWARE	Linux Kernel 2.6.x WindowsCE 6.0 (on request)	
VERSIONS*	Connector, BGA (on request)	
TEMP. RANGE	0°C to +70°C	
DIMENSIONS	55x45mm	

* depends on version - see ordering information



Development Support

- » DEV-i.MX31 Development Board

Ordering Information

Order No.	Info
100-1421-1	CM-i.MX31-C-C-Q26S128F40N128-E (CM-i.MX31C)
100-1441-1	CM-i.MX31L-A-C-Q26S64F32 (CM-i.MX31B)

Target Applications

- » Multimedia and Handheld Applications
- » Industrial Applications
- » Prototyping, Small and Medium Volume

BLUETECHNIX MECHATRONISCHE SYSTEME GMBH

Lainzerstraße 162/3
1130 Wien, Austria
www.bluetechnix.com

Tel.: +43 (1) 9142091 x 0
Fax.: +43 (1) 9142091 x 99
Email: office@bluetechnix.at

