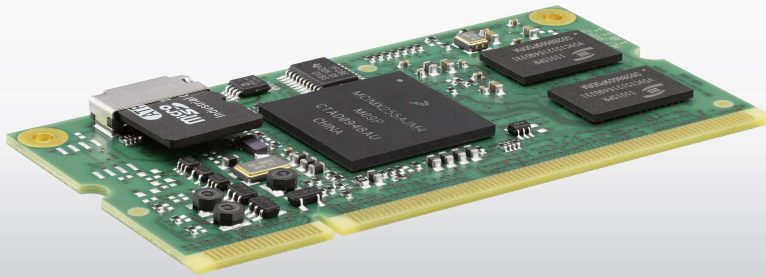


DHCOM iMX25x

Form, Fit & Function compatible COMs



ARM



TECHNICAL DETAILS

Processor	ARM926EJ-S with 400 MHz
CPU features	-
DDR2 DRAM	64 / 128 Mbyte
SLC-NAND flash	0 / 128 / 256 (max. 1024) Mbyte
E ² Prom	128 byte
microSD socket	Available on module
Real-time clock RTC	Available on module
Bus interface	16 bit address/data, 3 CS
Ethernet 1	10 / 100 Mbit
Ethernet 2	-
MMC/SD interface	4-bit mode
CAN	V2.0B, 1Mbit/s
UART 1	Full Function, up to 4 Mbit/s
UART 2	RX /TX /RTS /CTS, up to 4 Mbit/s
UART 3	RX / TX, up to 4 Mbit/s
SPI 1	Max. 16 MHz
SPI 2	Max. 16 MHz
I2C 1	Max. 400 Kbit/s
I2C 2	Max. 400 Kbit/s
USB Host 1	Full-Speed
USB Host 2	-
USB OTG	High-Speed
Camera	CCIR-656 interface, 8 bit
Display RGB	Max. 800 x 600 pixels, 16 bit
Display LVDS	-
Touch	4-wire
Audio	-
GPIO	21 IOs
PWM output	1 PWM out, 16 bit
Analog inputs	4 analog in, 12 bit SAR
Supply	3.3 or 5.0 VDC, typ. 0.75 W
Temperature range	Operating: -40 to +85 °C
Dimensions	67.6 x 36.7 x 8.1 mm
Socket	SODIMM-200
Debug interface	JTAG interface on module
BSPs	Linux, Windows CE



DESCRIPTION & HIGHLIGHTS

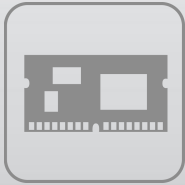
The DHCOM iMX25 Computer On Module (COM) in SODIMM -200 format is based on the **Freescale i.MX25** ARM9 processor, delivering optimized performance for visualization and communication.

Designed for industrial use, it offers a multitude of functions and interfaces, and conforms to the **DHCOM standard**, a novel, scalar module concept from DH electronics. The DHCOM standard enables the use of one and the same carrier board to accommodate the entire series of Form, Fit & Function compatible COMs.

Special attention was paid to the long-term availability, evidenced by the selection of the i.MX25 processor from Freescale's automotive series.

DH electronics module is also delivered complete with the Board Support Package for Linux and Windows CE. Our qualified customer support is also available to further assist you.

As your partner, we strive to help you in ensuring a fast, reliable and cost-effective product development.

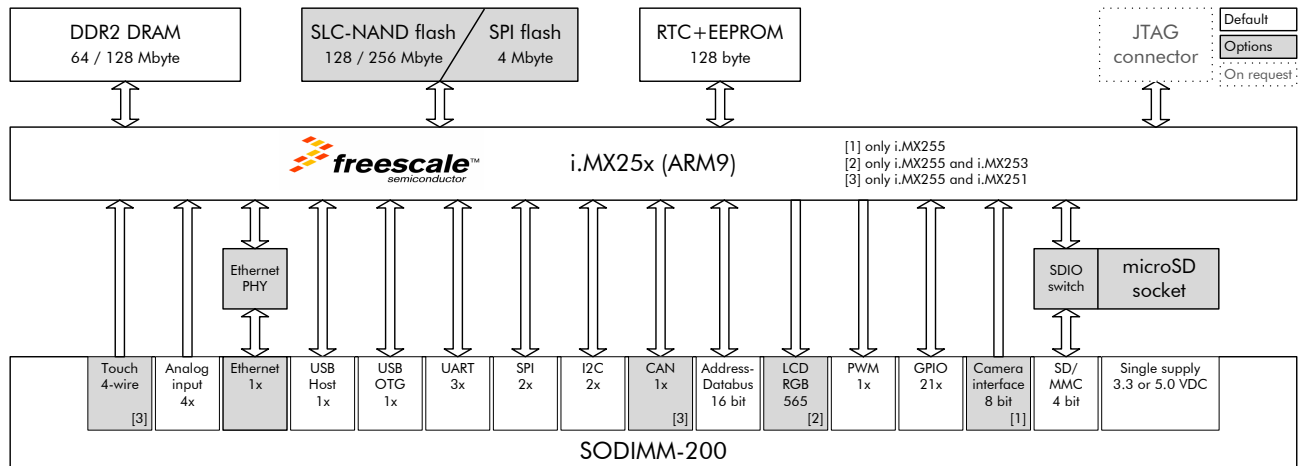


DHCOM iMX25x

Form, Fit & Function compatible COMs



BLOCK DIAGRAM



ORDERING INFORMATION

Ordering Configurations:

DHCM-CPU-Rxxx[-Fxxxx][-E][-SD]-I-01D2

CPU	iMX255, iMX253 (without CAN, touch and camera), iMX251 (without LCD and camera)
Rxxx	64MByte: R006, 128MByte: R012
I	Industrial temperature range (-40°C-85°C)
01D2	DHCOM Revision, SODIMM200 socket

Options:

[-Fxxxx]	128MByte NAND: F0012, 256MByte NAND: F0025
[-E]	Ethernet
[-SD]	microSD socket

Item number	Model (other configurations on request)	Product description
HI00008	DHCM-iMX255-R006-F0012-E-SD-I-01D2	DHCOM iMX255 with 400 MHz, 64MB DRAM, 128MB flash, ethernet, microSD socket
HI00009	DHCM-iMX255-R012-F0025-E-SD-I-01D2	DHCOM iMX255 with 400 MHz, 128MB DRAM, 256MB flash, ethernet, microSD socket