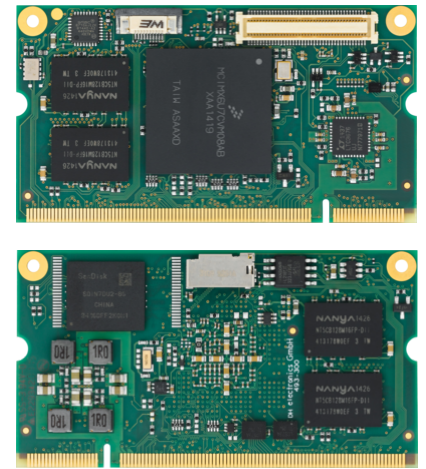




Leistungsfähiger Allrounder mit Solo, Dual, DualLite oder Quad Core.

- ▶ Hohe Flexibilität durch Solo, Dual, DualLite, Quad Core ARM Cortex-A9 Prozessor
- ▶ Mainline Open-Source-Linux (Etnaviv GPU-Treiber)
- ▶ CPU mit 2D/3D Grafikbeschleuniger und Bildverarbeitungseinheit
- ▶ Kein Kühlkörper dank 5-Cent Cooling Solution
- ▶ Kompatibel zu anderen Modulen aus der DHCOM Familie dank SODIMM-200 Sockel
- ▶ Garantierte Langzeitverfügbarkeit von 10+ Jahren

Technische Daten

Board type	Pluggable SOM
5-Cent Cooling available	✓
CPU details	2x Cortex-A9 up to 1.2 GHz as Solo / DualLite / Dual / Quad
CPU vendor	NXP
CPU type	Cortex-A9
Co-processor available	✗
Number of cores	1 2 4

GPU available	✓
DDR3 DRAM	256 / 512 / 1024 / 2048 MB
E2Prom	128 Byte
microSD available	✓
External RTC available	✓
Bluetooth available	✗
WiFi available	✗
BSP	Linux (Debian, Yocto)
Debug interface	JTAG interface on module
Power supply	3.3 or 5 VDC
Typ. power consumption	1.5 to 4.0 W
Operating temperature	-40 to +85 °C
Storage temperature	-40 to +85 °C
Dimensions	67.6 x 36.7 x 6.5 mm

SODIMM-200 socket

Bus interface	16 Bit
Ethernet 1	10 / 100 Mbit/s
Ethernet 2	-
MMC/SD	4 Bit mode
CAN 1	1 V2.0B
CAN 2	-
UART 1	Full function, up to 5.0 Mbit/s

UART 2	Rx / Tx / Rts / Cts, up to 5.0 Mbit/s
UART 3	Rx / Tx, up to 5.0 Mbit/s
SPI 1	25 MHz
SPI 2	25 MHz
I2C 1	400 kbit
I2C 2	400 kbit
USB host 1	High-speed
USB host 2	-
USB OTG	High-speed
CSI (parallel camera)	-
Display LVDS 1	60 fps
Touch	4-wire
I2S	1
Number of GPIOs	23
PWM output	1 PWM out, 16 Bit
Analog inputs	1x 12 Bit SAR converter

High-speed socket

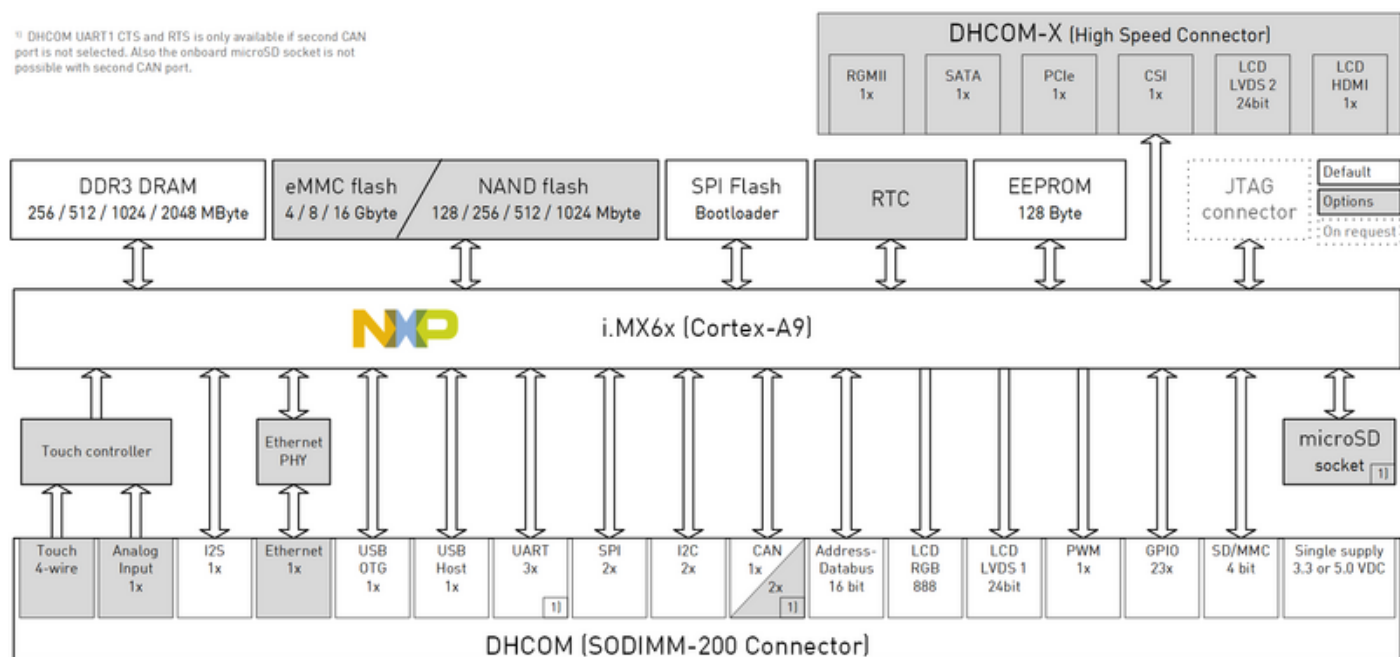
RGMII (Gbit Ethernet)	1
SATA	Serial ATA Rev. 2.5
PCIe	PCIe 2.0 and 1.1 compliant
MIPI CSI-2 (Camera)	MIPI D-PHY support, 2-data lanes
Display LVDS 2	60 fps

HDMI

Max. 1080p @60 Hz

Blockdiagramme

❗ DHCOM UART1 CTS and RTS is only available if second CAN port is not selected. Also the onboard microSD socket is not possible with second CAN port.



Konfigurationen

Artikelnummer	Modell	Produktbeschreibung
HI00102	DHCM-iMX6Q-C0800-R102-F0819-E-SD-RTC-T-HS-I-01D2	DHCOM i.MX6 Quad, 800 MHz, 1024 MByte DRAM, 8192 MByte eMMC flash, ethernet, microSD socket, RTC, resistive touch, Highspeed interface connector, -40 to +85 °C, DHCOM revision, SODIMM200 socket
HI00101	DHCM-iMX6DL-C0800-R102-F0819-E-SD-RTC-T-HS-I-01D2	DHCOM i.MX6 DualLite, 800 MHz, 1024 MByte DRAM, 8192 MByte eMMC flash, ethernet, microSD socket, RTC, resistive touch, Highspeed interface connector, -40 to +85 °C, DHCOM revision, SODIMM200 socket
HI00103	DHCM-iMX6S-C0800-R051-F0819-E-SD-RTC-T-HS-I-01D2	DHCOM i.MX6 Solo, 800 MHz, 512 MByte DRAM, 8192 MByte eMMC flash, ethernet, microSD socket, RTC, resistive touch, Highspeed interface connector, -40 to +85 °C, DHCOM revision, SODIMM200 socket

* Andere Konfigurationen auf Anfrage

Wie setzt sich die Modellnummer für die Bestellung zusammen?

DHCM-CPU-Cxxx-Rxxx[-Fxxxx][-E][-CAN2][-SD][-RTC][-T][-HS][-COATING]-X-01D2

CPU	Solo: i.MX6S, DualLite: i.MX6DL, Dual: i.MX6D, Quad: i.MX6Q
Cxxx	800 MHz: C080, 1000 MHz: C100, 1200 MHz: C120
Rxxx	128 Mbyte: R012, 256 Mbyte: R025, 512 Mbyte: R051, 1024 Mbyte: R102, 2048 Mbyte: R204
X	Commercial temperature range (0 °C - 70 °C): C, Industrial temperature range (-25 °C/-40 °C - 85 °C): I, Extended commercial temperature range (-20 °C - 85 °C): EC Note: Industrial temp. range for eMMC version is -25 °C -85 °C. Please contact us for -40 °C - 85 °C version.
01D2	DHCOM Revision, SODIMM200 socket
Options	
[-Fxxxx]	128 Mbyte NAND: F0012, 256 Mbyte NAND: F0025, 512 Mbyte NAND: F0051, 1024 Mbyte NAND: F0102, 4096 Mbyte eMMC: F0409, 8192 Mbyte eMMC: F0819, 16384 Mbyte eMMC: F1638
[-E]	Ethernet
[-CAN2]	Second CAN port available Note: With second CAN port the option -SD is not possible.
[-SD]	microSD socket
[-RTC]	Low power temperature compensated real time clock (instead of CPU internal RTC)
[-T]	Resistive touch controller
[-HS]	High speed interface connector
[-COATING]	PCB and component conformal coating