

Leistungstark, stromsparend, kostengünstig.

- ▶ Hohe Performance mit Bluetooth und WiFi
- ▶ Leistungsstarke ARM Cortex-A7 CPU von NXP mit bis zu 900 MHz
- ▶ Kostengünstig und extrem energiesparend
- ▶ Kompatibel zu anderen Modulen aus der DHCOM Familie (SODIMM-200 Sockel)

Technische Daten

Board type	Pluggable SOM
5-Cent Cooling available	✘
CPU details	1x ARM Cortex®-A7 up to 900 MHz
CPU vendor	NXP
CPU type	Cortex-A7
Co-processor available	✘
Number of cores	1
GPU available	✘

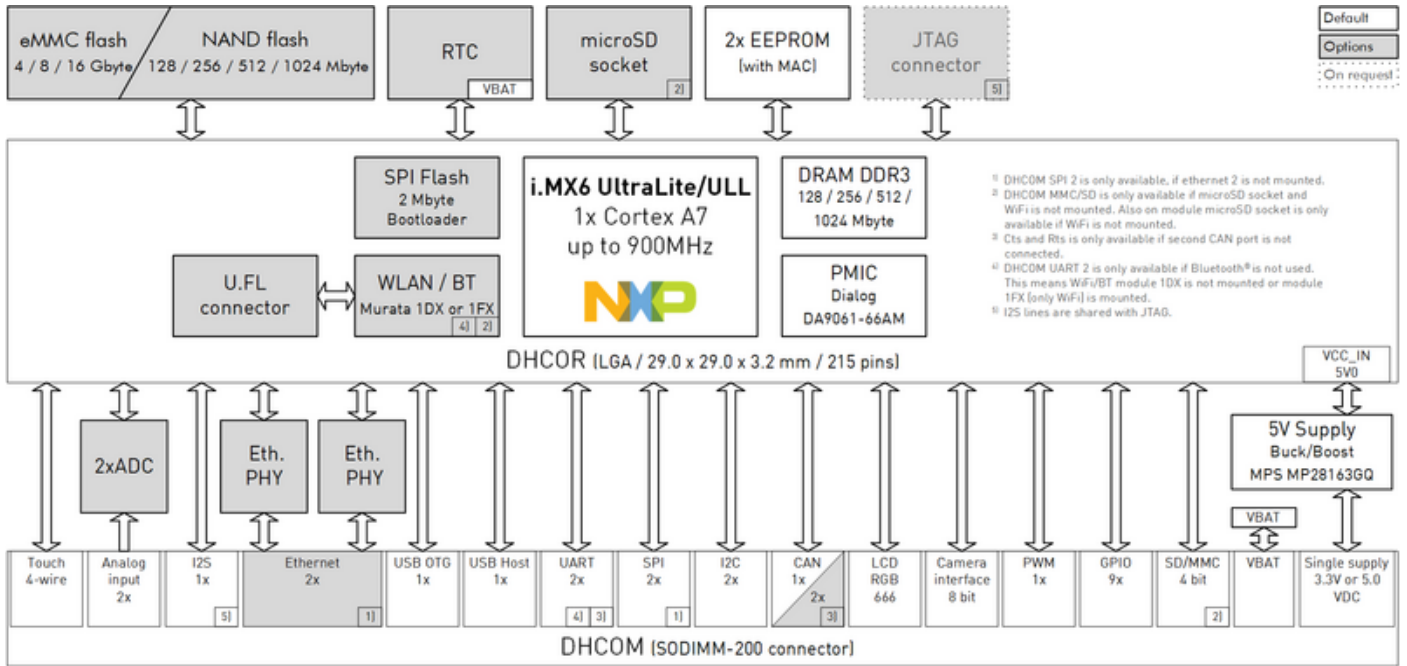
DDR3 DRAM	128 / 256 / 512 / 1024 MB
SLC-NAND flash	128 / 256 / 512 / 1024 MB
SPI NOR flash	2 MB
E2Prom	2x 256 Byte
microSD available	✓
External RTC available	✓
Bluetooth available	✓
Bluetooth version	Bluetooth® v5.1 (BR/EDR/BLE), U.FL antenna connector
WiFi available	✓
WiFi version	WiFi IEEE802.11b/g/n
BSP	Linux (Debian, Yocto)
Debug interface	JTAG interface on module
Power supply	3.3 or 5 VDC
Typ. power consumption	0.6 to 1.2 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	-
Dual Ethernet available	✓
Ethernet 1	10 / 100 Mbit/s
Ethernet 2	10 / 100 Mbit/s

MMC/SD	MMC 4.5 / SD 3.0 / SDIO Port (1-/2-/4-bit)
CAN 1	1 Mbit/s
CAN 2	1 Mbit/s
UART 1	up to 5 Mbit/s
UART 2	Rx / Tx / Rts / Cts, up to 5 Mbit/s
UART 3	-
SPI 1	52 Mbit/s
SPI 2	52 Mbit/s
I2C 1	400 kbit
I2C 2	400 kbit
USB host 1	High-speed
USB host 2	-
USB OTG	High-speed
CSI (parallel camera)	8 Bit
Display RGB	18 Bit
Display LVDS	-
Touch	4-wire
I2S	1
Number of GPIOs	9
PWM output	1 PWM out, 16 Bit
Analog inputs	2 Analog in, 12 Bit ADC with 3.3 VDC reference voltage

Blockdiagramme



Konfigurationen

Artikelnummer	Modell	Produktbeschreibung
HI00098	DHCM-iMX6ULL-C080-R051-F0409-SPI-E2-CAN2-RTC-WBT-ADC-I-01D2	DHCOM i.MX6ULL, 800 MHz, 215 MByte DRAM, 4096 MByte eMMC flash, 2 MByte SPI boot flash, 2x 100 Mbit ethernet, second CAN port available, RTC, WiFi and BT module, 2x ADC inputs, -40 to +85 °C, DHCOM revision, SODIMM200 socket
HI00099	DHCM-iMX6ULL-C080-R051-F0409-SPI-E2-CAN2-SD-RTC-ADC-I-01D2	DHCOM i.MX6ULL, 800 MHz, 512 MByte DRAM, 4096 MByte eMMC flash, 2 MByte SPI boot flash, 2x 100 Mbit ethernet, second CAN port available, microSD socket, RTC, 2x ADC inputs, -40 to +85 °C, DHCOM revision, SODIMM200 socket
HI00096	DHCM-iMX6ULL-C052-R025-F0012-SPI-E-SD-RTC-C-01D2	DHCOM i.MX6ULL, 528 MHz, 256 MByte DRAM, 128 MByte NAND, 2 MByte SPI boot flash, 1x 100 Mbit ethernet, microSD socket, RTC, 0 to +70 °C, DHCOM revision, SODIMM200 socket

Artikelnummer	Modell	Produktbeschreibung
HI00097	DHCM-iMX6ULL-C080-R051-F0409-SPI-E-CAN2-RTC-WBT-I-01D2	DHCOM i.MX6ULL, 800 MHz, 512 MByte DRAM, 4096 MByte eMMC flash, 2 MByte SPI boot flash, 1x 100 Mbit ethernet, second CAN port available, RTC, WiFi and BT module, -40 to +85 °C, DHCOM revision, SODIMM200 socket
HI00100	DHCM-iMX6ULL-C080-R051-F0409-SPI-E2-I-01D2	DHCOM i.MX6ULL, 800 MHz, 512 MByte DRAM, 4096 MByte eMMC flash, 2 MByte SPI boot flash, 2x 100 Mbit ethernet, -40 to +85 °C, DHCOM revision, SODIMM200 socket
FD00066	Premium Development Kit DHCOM STM32MP15	<p>FD00034 Premium Development Kit</p> <p>FD00029 Cable Kit Premium Development Kit</p> <p>HI00098 DHCM-iMX6ULL-C080-R051-F0409-SPI-E2-CAN2-RTC-WBT-ADC-I-01D2</p> <p>SD00025 microSD card with Linux Mainline Yocto</p> <p>FD00035 7" Display with capacitive touch</p> <p>W00038 Protection Case</p>

* Andere Konfigurationen auf Anfrage

Wie setzt sich die Modellnummer für die Bestellung zusammen?

DHCM-CPU-Cxxx-Rxxx[-Fxxxx][-SPI][-E/E2][-CAN2][-SD][-RTC][-W/WBT][-ADC]-X-01D2

CPU	i.MX6ULL (MCIMX6Y2); i.MX6ULL, i.MX6UltraLite (MCIMX6G2); i.MX6UL
Cxxx	528 MHz: C052, 696 MHz: C069, 800 MHz: C080, 900 MHz: C090
Rxxx	128 Mbyte: R012, 256 Mbyte: R025, 512 Mbyte: R051, 1024 Mbyte: R102
X	Commercial temperature range (0 °C - 70 °C): C, Industrial temperature range (-40 °C - 85 °C): I (only -30 - 70 °C with option WBT) 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
[-SPI]	2 Mbyte SPI boot flash
[-E] or [-E2]	1x 100 Mbit Ethernet: E 2x 100 Mbit Ethernet: E2
[-CAN2]	Second CAN port available
[-SD]	microSD socket
[-RTC]	Low power temperature compensated real time clock (instead of CPU internal RTC)
[-W] or [-WBT]	WiFi via Murata 1FX module with U.FL connector: W, WiFi and Bluetooth® via Murata 1DX module with U.FL connector: WBT
[-ADC]	2x A/D converter inputs