

High performance, low power, low cost.

- ▶ High performance with pre-certified Bluetooth and WiFi
- ▶ Powerful ARM Cortex-A7 CPU from NXP with up to 900 MHz
- ▶ Cost-effective and extremely energy-saving
- ▶ Compatible with other modules from the DHCOM family (SODIMM-200 socket)

Technical Data

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	tbd.
GPU available	✘

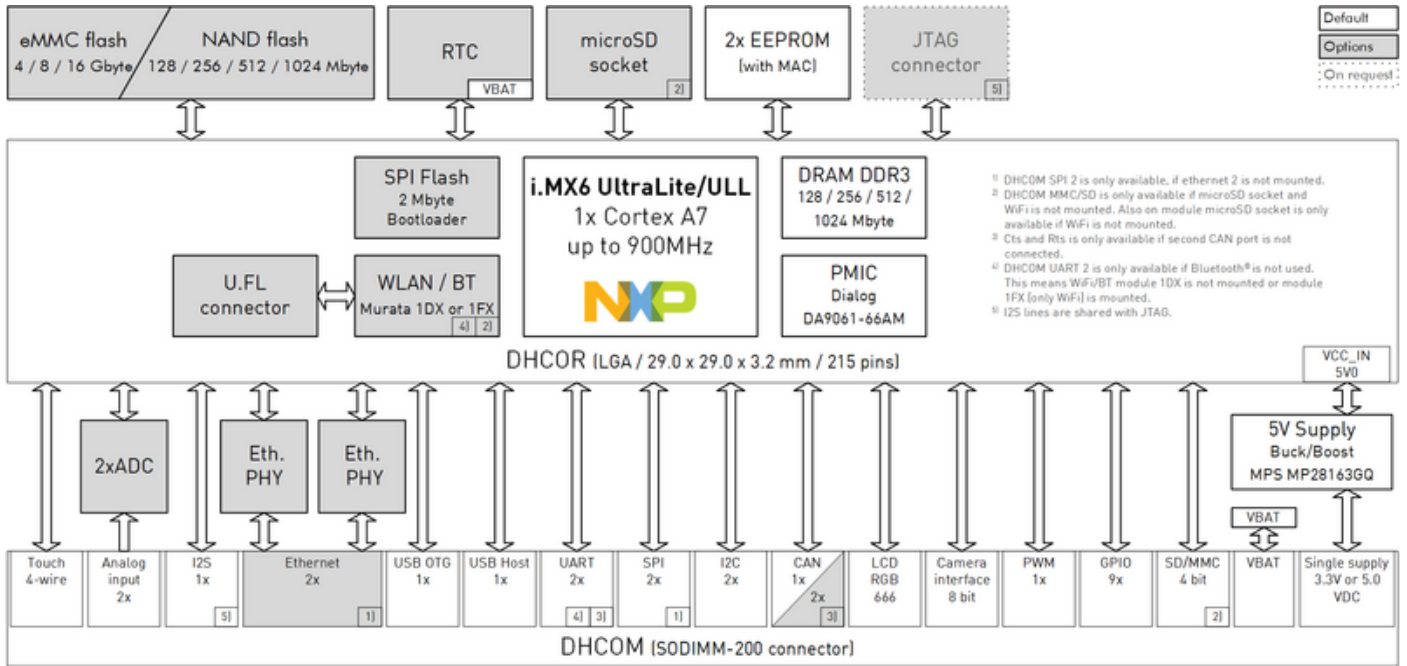
DDR3 DRAM	128 / 256 / 512 / 1024 MB
SLC-NAND flash	128 / 256 / 512 / 1024 MB
SPI NOR flash	2 MB
E2Prom	2x 256 Byte
microSD available	✓
External RTC available	✓
Bluetooth available	✓
Bluetooth version	Bluetooth® v5.1 (BR/EDR/BLE), U.FL antenna connector
WiFi available	✓
WiFi version	WiFi IEEE802.11b/g/n
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

Block Diagrams



Configurations

Item Number	Model (other configurations on request)	Product description
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

Item Number	Model (other configurations on request)	Product description
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
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	FD00034 Premium Development Kit FD00029 Cable Kit Premium Development Kit HI00098 DHCM-iMX6ULL-C080-R051-F0409-SPI-E2-CAN2-RTC-WBT-ADC-I-01D2 SD00025 microSD card with Linux Mainline Yocto FD00035 7" Display with capacitive touch WV00038 Protection Case

* Other configurations on request