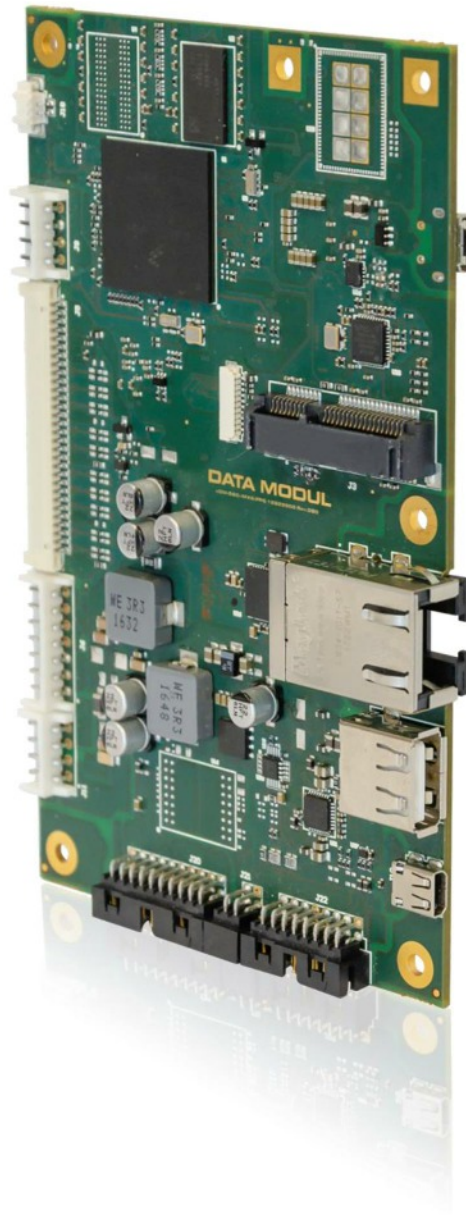


eDM-SBC-iMX6-PPC

Datasheet



https://www.data-modul.com/sites/default/files/products/eDM-SBC-iMX6-PPC_specification_12033459.pdf



FEATURES

Slim PPC Format (130 mm x 80 mm x 13 mm)

NXP® i.MX6 Cortex A9 SoC 800 MHz

Up to 2 GB onboard DDR3 memory

1x HDMI, 1x Dual 24-Bit LVDS

Industrial 24/7 applications

Temperature range -40°C to +85°C

TECHNICAL INFORMATION

Formfactor	130 mm x 80 mm x 13 mm (DM Slim PPC-Format)
CPU	NXP® i.MX6 Solo, Cortex A9 800 MHz, 1C, 512KB L2 Cache, GC880 NXP® i.MX6 DualLite, Cortex A9 800 MHz, 2C, 512KB L2 Cache, GC880 NXP® i.MX6 Dual, Cortex A9 800 MHz, 2C, 1MB L2 Cache, GC2000 NXP® i.MX6 Quad, Cortex A9 800 MHz, 4C, 1MB L2 Cache, GC2000
Memory	onboard up to 2 GByte DDR3 (1066MT/s)
Mass Storage	onboard eMMC up to 64GByte
Graphics	integrated Graphics Processing Unit with 2D, 3D Vector Graphics 1080p 30fps video decode and encode
Display Interfaces	1 x HDMI 1.4 (Micro-HDMI, Type D), 1 x Dual Channel 24 Bit LVDS for up to e.g. Full HD 1920 x 1080 Pixel
Ethernet	Gigabit Ethernet Controller, 10/100/1000 Mbps with Texas Instruments DP83867IR PHY
I/O Interfaces	4 x USB 2.0 (EHCI), 1 x USB OTG, 4 x UART 1 x RS485 full-duplex (optional) 1 x Micro-SD card slot 1 x SATA II (3Gb/s) on mPCIe Socket (only on Dual/Quad Version) 1 x PCIe 2.0 Lane on mPCIe Socket 1 x SPI, 1 x I ² C, 1 x PWM, 8 x GPIO 2 x CAN with up to 1 Mbit/s (1 optional with isolated Transceiver) 1 x M.2 WLAN/Bluetooth module (optional), Intel Wireless-AC 8265
Power Supply	VCC: 24V (+/-30%) , optional: +12 V (+/-5%)
Operating Systems	Linux (Yocto) Kernel 4.9
Temperature	Operating: -40°C ... +85°C, Storage: -40°C ... +85°C, For further details please refer to the HW-manual
Humidity	Operating: < 80% RH non-condensing
Safety, Shock and Vibration	Designed to meet EN60950, IEC/EN60068-2-27 and IEC/EN60068-2-6
Assembly option	MOQ: 2000

HW-Manual:



https://www.data-modul.com/sites/default/files/products/eDM-SBC-iMX6-PPC_manual_12033459.pdf

Linux-BSP-Manual:



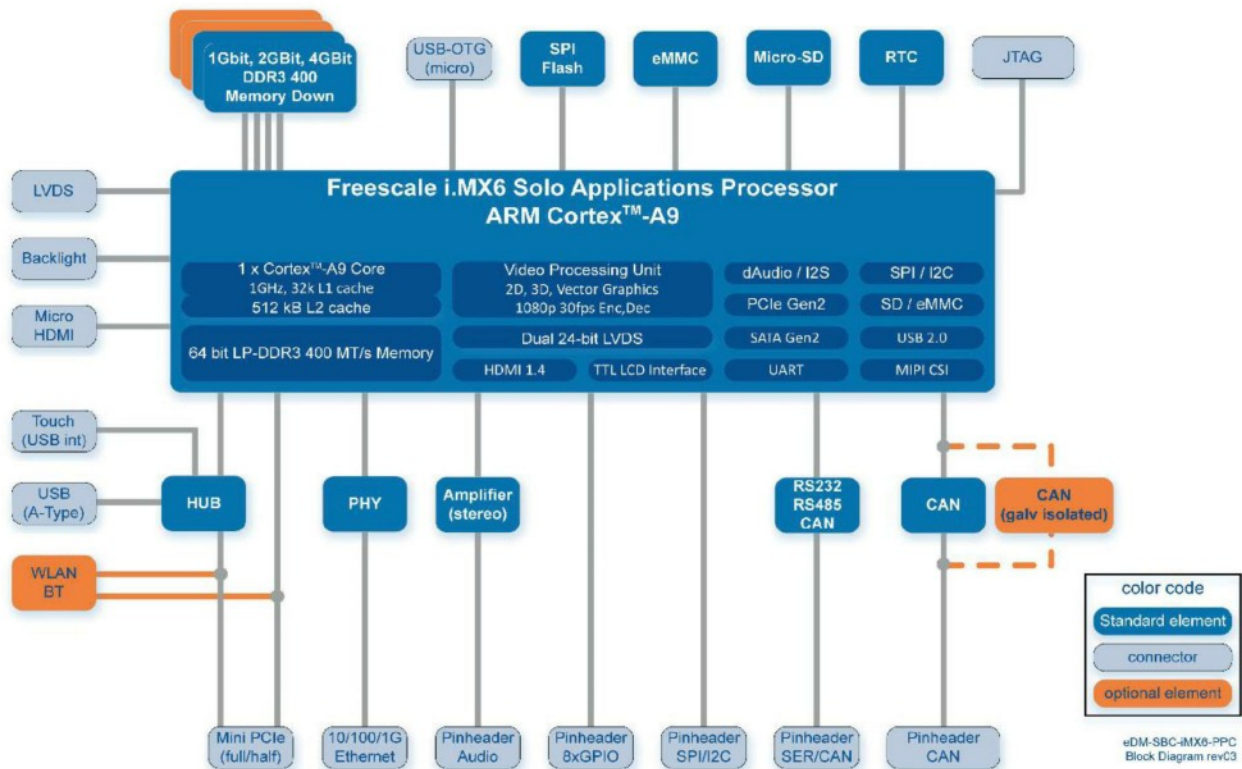
https://github.com/data-modul/documentation/blob/master/Linux-BSP-Manual_eDM-SBC_iMX6.pdf

Github-Repository:



<https://github.com/data-modul>

BLOCK DIAGRAM



ORDERING INFORMATION

Model Name	Part Nr.	Description
eDM-SBC-iMX6-PPC-S-1G	12028335	i.MX6 Solo 800MHz, 1GB RAM, 8GB eMMC, Audio, Ethernet, 2xCAN, mPCIe, 4 x RS232, 1 x RS485, I2C, SPI, Micro-SD, Micro-HDMI, 24VDC
eDM-SBC-iMX6-PPC-DL-1G	12028336	i.MX6 DualLite 800MHz, 1GB RAM, 8GB eMMC, Audio, Ethernet, 2xCAN, mPCIe, 4 x RS232, 1 x RS485, I2C, SPI, Micro-SD, Micro-HDMI, 24VDC
eDM-SBC-iMX6-PPC-Q-2G	12033216	i.MX6 Quad 800MHz, 2GB RAM, 16GB eMMC, Audio, Ethernet, 2xCAN, mSATA on mPCIe, 4 x RS232, 1 x RS485, I2C, SPI, Micro-SD, Micro-HDMI, M.2-1216 WLAN/BT Module, 24VDC
eDM-SBC-iMX6-PPC-CH	12035550	Heatspreader for eDM-SBC-iMX6-PPC-Q-2G
eDM-SBC-iMX6-Starterkit	12036809	eDM-SBC-iMX6-PPC-DL-1G (eDM-SBC-iMX6-PPC-S-1G, eDM-SBC-iMX6-PPC-Q-1G on request) µSD-Card, DM-USB-Stick, Power Supply 24V 90W, RTC-Battery, Interface-set (Debug-cable, HDMI-cable, Expansionheader-cable, Power-cable)
eTD070W2201-INA-A	12015571	G070Y2-L01 incl. easyTOUCH with Auto Panel Detection
eTD101W2201-INA-A	12015572	G101ICE-L01 incl. easyTOUCH with Auto Panel Detection
eTD121W2202-INA-A	12015573	G1211I-L01 incl. easyTOUCH with Auto Panel Detection