



i.MX6 ARM CPU
ALMOST ENDLESS POSSIBILITIES
OF APPLICATION

GOOD SCALABLE - LONG TERM AVAILABLE

Based on the latest microprocessor family i.MX6 (ARM Cortex-A9 architecture) from Freescale a customized customizable CPU platform are available. Scales well (single-core to quad-core) and is available on a long term – Industrial-standard (at least 10 years). A variety of interfaces for industrial environment communication (Ethernet, USB, WLAN, Bluetooth, RS 485, RS 232, CAN) are also available, such is adequate storage facilities (DDR3 RAM, NOR Flash, NAND Flash, SRAM) for the operation of the board with a current Linux-implementation.

The scope of services is rounded off with an integrated Graphic-core for 2D and 3D display, a LCD and Touch-Interface so applications, both in the „HMI“ and in the fields „Measure/control/rules“ or „communication“, can be implemented quickly and inexpensively.

FEATURES

- Highly scalable computing power
- All standard display interfaces available
- Resistive and capacitive Touches
- Multiple communication interfaces
- Scalable storage-expansion
- Over extension connector individually expandable functionality

CUSTOMER BENEFITS

- Pin-and software-compatible single-, Dual-and quad-core version available
- Integrated 3D engine for demanding graphic applications
- Highly integrated processor family with wide range of interfaces for short design and time to market
- Complete Linux toolchain free available

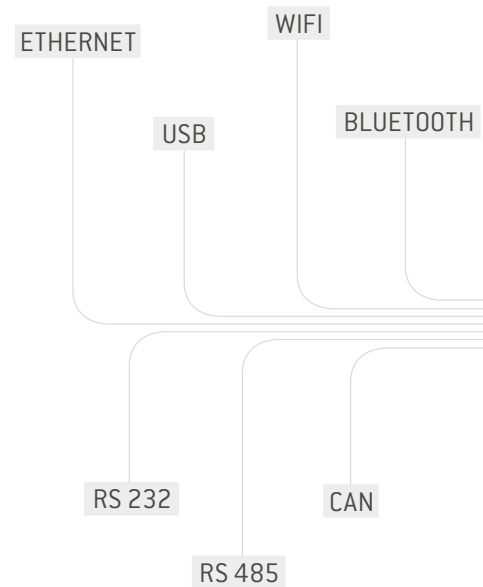
APPLICATIONS

- Human-Machine Interface
- Industrial Communication
- M2M (machine-to-machine)
- Home Automation
- POS displays
- Infotainment/Entertainment
- Portable systems



TECHNICAL SPECIFICATIONS

Function	Example placement	Optional/Max placement
MICROPROZESSOR		
CPU	i.MX6 solo	i.MX6 dual, i.MX6 quad
CPU mode	32 bit	32/64 bit
MEMORY		
NOR-FLASH	1 MB	4 MB
NAND-FLASH	256 MB	1 GB
DDR3-RAM	256 MB	2 GB
eMMC		4..64 GB
SRAM/FRAM		1..4 MB
SD-Card	1x micro-SD	
COMMUNICATION		
Serial interfaces	1x RS232	1x RS232 + 1x RS485
CAN	1x CAN	2x CAN
USB 2.0 Host	2	4
USB 2.0 Device		1
Ethernet	1x 100 Mbit	1x 100 Mbit + 1x 1 Gbit
WiFi	802.11 b/g/n [2,4 GHz]	802.11 b/g/n [5 GHz]
Bluetooth	2.1+EDR / 4.0 (BLE)	
GSM modem		1x GPRS / UMTS / LTE
HUMAN - MACHINE – INTERFACE		
Display	RGB 24bit (up to 1024x768)	LVDS/HDMI (up to 1920x1080)
Touch	4-wire resistive	capacitive
OTHER		
Extension		GPIO, PCIe, USB, RFID
Supply voltage	18..36 Vdc	customized
Puffer control for RTC	GoldCap	CR2032
SOFTWARE		
Bootloader	U-Boot	BIOS
Operating system	Embedded Linux	Windows Embedded Compact



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