

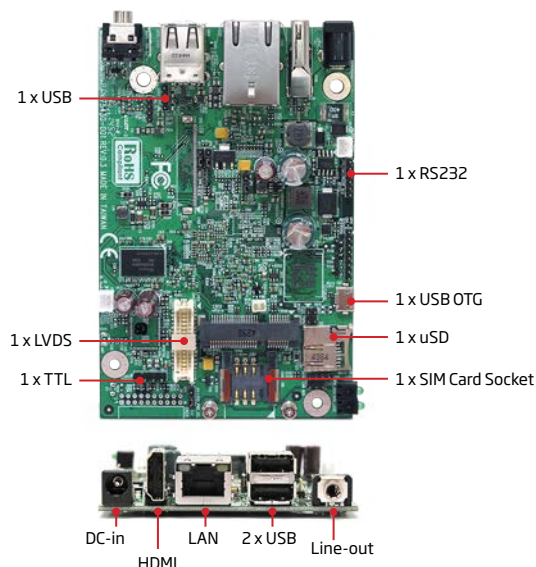
AR6MXCS

ARM Platform

Cost Effective, Ultra Low Power 5V DC-in, Palm Size ARM Motherboard

Features

- NXP i.MX6 ARM Cortex A9 Solo Core 1.0 GHz
- 512 MB onboard DDR3 Memory
- Dual Display: 1 x 18/24bits LVDS, 1 x HDMI
- 3 x USB 2.0 (2 external and 1 internal) and 1 x OTG
- 1 x COM (RS232) and 1 x COM (TTL)
- 1 x uSC Card Socket
- 1 x SIM Card Socket
- External RTC: Seiko® S-35390 or Equivalent (Optional)
- 5V DC Input
- Small Form Factor (Palm Size)



Specifications

System

CPU	NXP i.MX6 Cortex A9 Solo Core 1.0 GHz Processor Onboard
System Memory	512 MB DDR3 Memory Onboard, expandable to 1 GB
Bluetooth & WiFi	Optional Through Mini-PCIe Module
Audio	Wolfson® WM8962 Ultra Low Power Audio Codec
Ethernet	Micrel® KSZ9031 Gigabit Ethernet
Expansion	1 x uSD Card Slot (Bootable) Onboard eMMC Flash (Optional) 1 x Mini PCIe (Half Size)

OS Support

Android	Android 4.3, 4.4 and 5.0 can be supported if upgraded to 1G DDR3 memory. Please contact us for more information
Linux	Linux Ubuntu 14.04.2 (Check Latest Version Online)
Other	Linux Yocto 1.7 (Check Latest Version Online)

Video

Video Interface	1 x 18/24bits LVDS, 1 x HDMI
Video Processing Unit	OpenGL® ES 2.0 and OpenVG™ 1.1 Hardware Accelerators & Multi-Format HD1080p Video Decoder and HD720p Video Encoder Engine

Rear I/O

Audio Interface	1 x Line-Out
USB	2 x USB 2.0 and 1 x Micro USB Connector (USB OTG)
HDMI	1 x HDMI
LAN	1 x RJ-45
DC-in	1 x Barrel Type Connector

Onboard I/O

LVDS	1 x LVDS and 1 x Inverter Control Header
USB	1 x USB 2.0 Headers (2 Ports)
COM (Serial Port)	1 x TTL
DIO	1 x 8 bits GPIO
MIO	1 x Front Panel, 1 x Cable Type CMOS Battery, 1 x I²C Header, x CAN Bus Header, 1 x Mic-in Header, 1 x Line-out Header (Optional), 1 x DC-in Header (Optional)

Mechanical & Environment

Power	5V DC Input
Operating Temp.	0 ~ 60°C
Storage Temperature	-20 ~ 80°C
Operating Humidity	5 ~ 90% Relative Humidity, Non-condensing
Form Factor	Custom, Small Form Factor
Dimensions (L) x (W)	4.72" x 3.07" (120mm x 78mm)
Weight	3.5 oz

Ordering Info

AR6MXCS	NXP® i.MX6 Cortex A9 Solo Core 1.0 GHz ARM Motherboard (Board only)
AR6MXCS-DEV-LN	Development kit includes one AR6MXCS motherboard, 8 GB MicroSD Card pre-loaded with Linux OS, USB to TTL Cable, USB OTG Cable and 5V AC Adapter

* All product specifications and images are subject to change without notice.
Last update: 2/11/2016