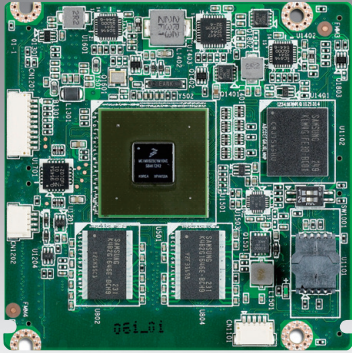


ROM-3420

NXP ARM® Cortex®-A9 i.MX6 RTX v2.0 module



Features

- NXP ARM® Cortex®-A9 i.MX6 high performance processor
- Onboard DDR3 memory and eMMC 16GB
- Supports wide range power input 5V-24V
- Supports OpenGL ES 2.0 and OpenVG 1.1 hardware accelerators
- Supports full HD 1080p video decode and HD 1080p video encode hardware engine
- Supports 1 PCIe, 1 GbE, 1 USB 2.0, 1 USB OTG2.0, 1 SATAII, 4 I²C, 1 I³S, 1 Camera in, 2 CANbus, 10 GPIO, System bus
- Low power consumption, fanless design
- Supports Linux and Android BSP



Introduction

ROM-3420 RTX2.0 module integrates an ARM Cortex A9 Dual 1 GHz NXP i.MX6 series ultra low power SoC and I/O solution with Linux. NXP i.MX6 supports 2D, 3D graphics acceleration, and a full HD 1080P video decoding encoding hardware engine. ROM-3420 supports 5V-24V wide range power inputs and a wide temperature design for industrial applications.

ROM-3420 RTX2.0 module offers an Advantech ROM-DB3900 evaluation carrier board for easy integration and hardware design reference, and also provides a Linux BSP utility and reference codes for application development and device integration.

Specifications

Form Factor		RTX v2.0
Processor System	CPU	NXP ARM Cortex-A9 i.MX6 1 GHz
	Technology	DDR3 1066 MHz
Memory	Capacity	On-board DDR3 1 GB
	Flash	16 GB eMMC NAND Flash for O.S. and 4 MB SPI NOR Flash for Advantech boot loader
Graphics	LVDS	1 Single 24-bit LVDS, 1366 x 768 at 60Hz
	HDMI	1920 x 1080 at 60Hz
	Parallel RGB	1 24-bit TTL, 1920 x 1200 at 60Hz
	VGA	-
	Graphics Engine	2 IPUs, OpenGL ES 2.0 for 3D, BitBlit for 2D and OpenVG 1.1
Ethernet	H/W Video Codec	Decoder: MPEG-4 ASP, H.264 HP, H.263, MPEG-2 MP, MJPEG BP Encoder: MPEG-4 SP, H.264 BP, H.263, MJPEG BP
	Chipset	NXP i.MX6 integrated RGMII
Ethernet	Speed	1 x 10/100/1000 Mbps
RTC	RTC	Yes
WatchDog Timer		256-level timer interval, from 0 ~ 128 sec
I/O	PCIe	1 PCIe x 1
	SATA	1 SATA II
	USB	1 USB 2.0, 1 USB 2.0 OTG
	Audio	I ² S
	SPDIF	-
	SDIO	1
	Serial Port	3 UART (3 x 4 wire w / 3.3V)
	SPI	2
	CAN	2 CAN bus 2.0B
	GPIO	10
	I ² C	4
	Camera Input	1 MIPI v1.0, 4 x Lane
	System Bus	Address: 26 bits, Data: 16 bits
Touch	-	
Keypad	-	
Power	Power Supply Voltage	5 ~ 24 V
	Power Consumption	6.25W (Max)
Environment	Operating Temperature	0 ~ 60 °C/ -40 ~ 85 °C
	Operating Humidity	0% ~ 95% relative humidity, non-condensing
Mechanical	Dimensions (W x D)	68 x 68 mm
Operation system		Linux & Android
Certifications		CE/FCC Class B

Embedded Linux Support and Design-in Services

Hardware Certified Ubuntu and Yocto with Eco Partner Services

Linux is the most popular embedded OS for transportation, outdoor services, factory automation, and mission critical applications. Its open source and kernel reliability features ease security updates, and make it particularly adaptable to new AI and Edge computing technology. Advantech has cooperated with Canonical and other software partners to provide hardware certified Ubuntu image and Yocto BSP as Linux offerings. The Advantech, Embedded Linux, and Android Alliance (ELAA) delivers local software services and consultation.



Features

Certified OS and BSP <ul style="list-style-type: none"> Platform compatibility tests Preloaded functional driver and software stacks 	Licensed Services <ul style="list-style-type: none"> License authorized Canonical delivers 10-years of bug fixes and security updates In-house bundled service 	Numerous AI and Edge Resources <ul style="list-style-type: none"> Containerized technology for service provision and deployment AI resources from Caffe, TensorFlow, and mxnet 	Local Partner Alliance <ul style="list-style-type: none"> Embedded Linux and Android Alliance (ELAA)
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WISE-DeviceOn

Massive IoT Device Management Utility

IoT deployment and management typically involves numerous disparate devices installed on multiple sites. These devices require effective monitoring, managing, and tracking. Advantech's easy-to-use WISE-DeviceOn interface enables users to remotely monitor device health, troubleshoot problems, and send software/firmware updates over-the-air (OTA). In sum, DeviceOn empowers quick real-time responsiveness to emerging problems.



Features

Comprehensive Management	Remote Access	Efficient Operations
<ul style="list-style-type: none">• Devices status• Peripherals/firmware• Open for extension	<ul style="list-style-type: none">• Real-time monitoring• Remote controls• Troubleshooting	<ul style="list-style-type: none">• Zero-touch on-boarding• OTA updates• Batch control

Product Highlights



SOM-6883

High-performance 11th Gen Intel[®] COMe Type 6 Module



MIO-5375

Compact 11th Gen Intel[®] Outdoor Focused 3.5" SBC



EPC-B5587

10th Gen Intel[®] Xeon[®] based Edge server



EPC-R3220

Arm based IoT Edge Gateway

Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



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Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.