



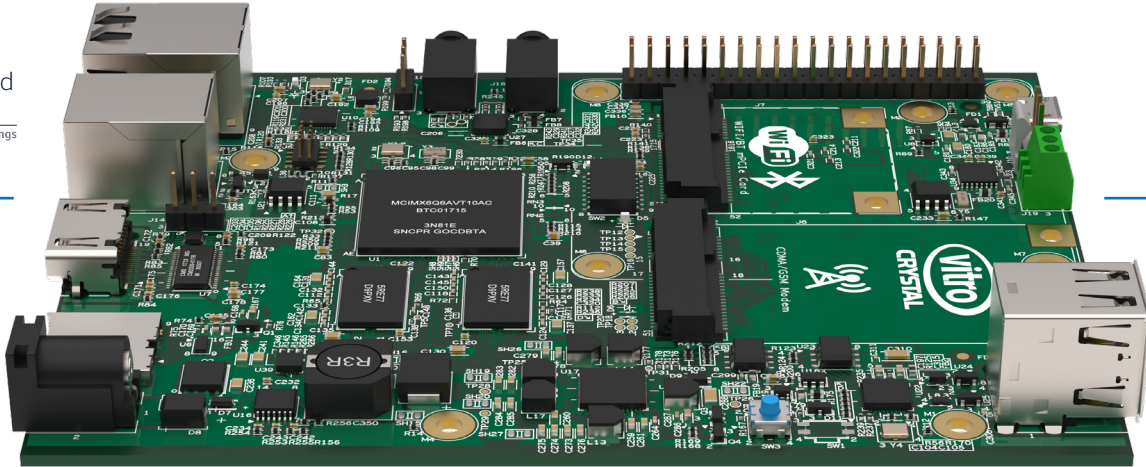
VITRO-2007-057

Vitro Crystal®

aws partner network

Advanced Technology Partner

aws qualified device internet of things



FEATURES



- NXP® i.MX 6 DualLite based on ARM Cortex-A9 MP Core with peak DDR800
- Microchip® ECC5/608A Crypto Authentication
- Raspberry Pi® HAT compatible header
- CANbus RJ-11 Local area network connection Vitro Shard® compatible
- SDRAM x64 2 Gbyte DDR3L
- Onboard, scalable eMMC 8GB
- HDMI video and audio output hardware video decoding capabilities (up to 1080p@24fps)
- AWS IoT Greengrass Hardware Security Integration Qualified
- IoT Data hosted AWS, Azure, GovCloud or local
- Half and Full Mini PCIe with CDMA or GSM support with nano SIM connector
- Wifi Card (Mini PCIe Half Slot) *Optional*
- USB OTG FS with Micro-B connector
- Commercial temperature rated 0° C to 85° C Military-Grade temperature rated -55°C to +125°C
- 120V/220V AC - 12VDC 2A power supply included



VITROBIAN LINUX STACK

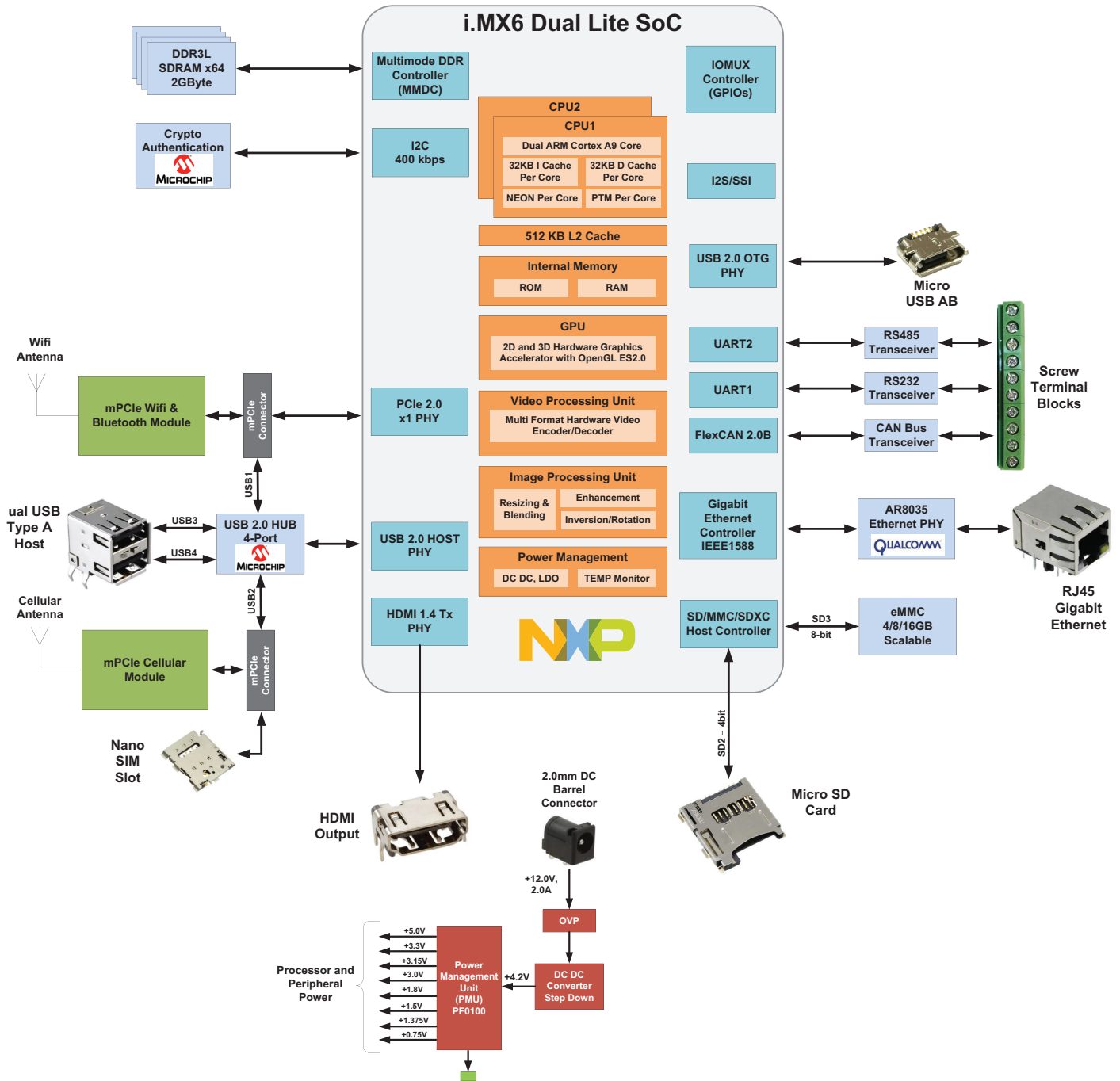
The Vitrobian images allows developers to build a custom software stack.

- BSP based on mainline and longterm stable Linux & U-Boot
- Pre-built Debian-based images
- ⚙ Visit <https://community.vitro.io> for support
- </> Visit <https://github.com/VitroTech> for code



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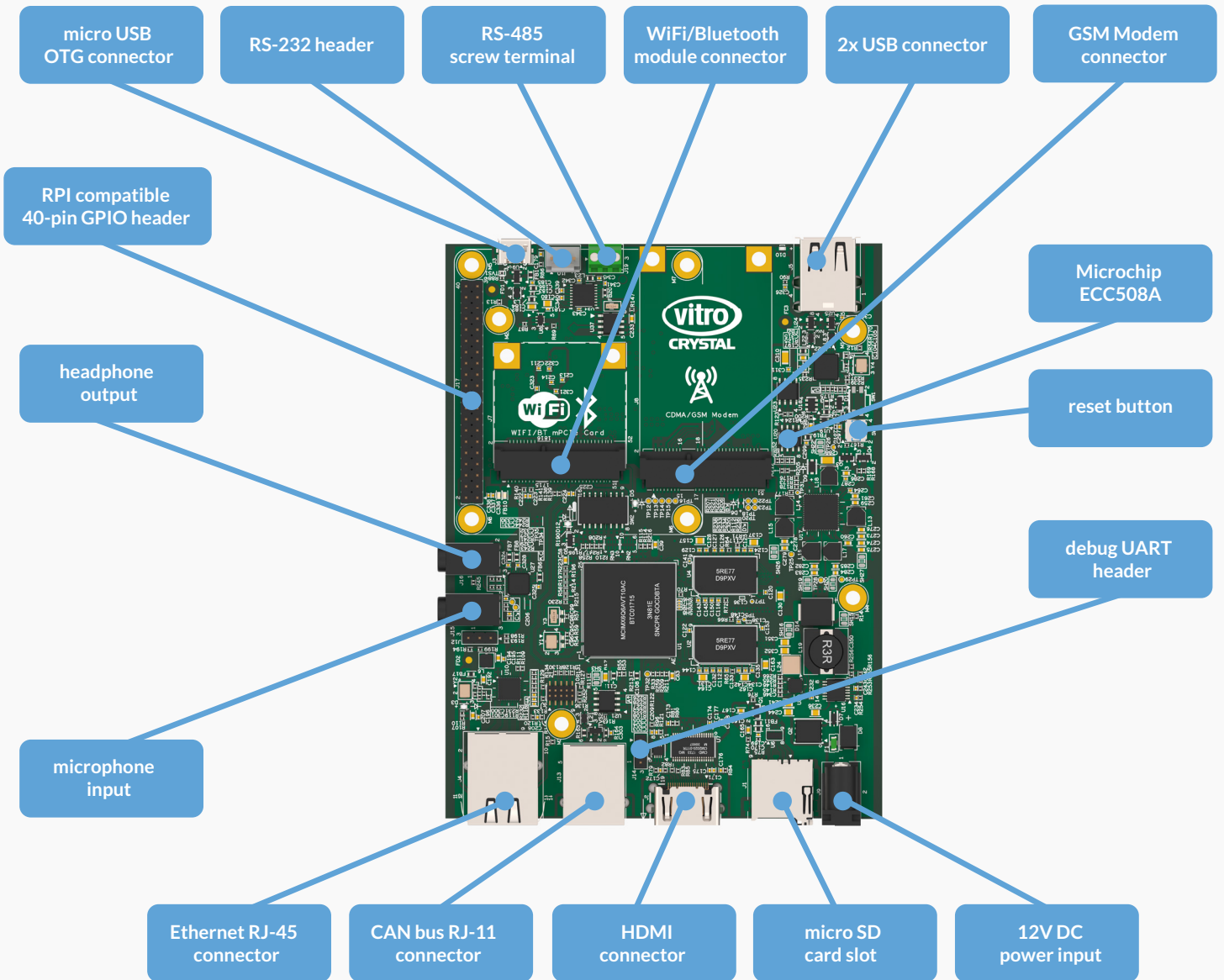
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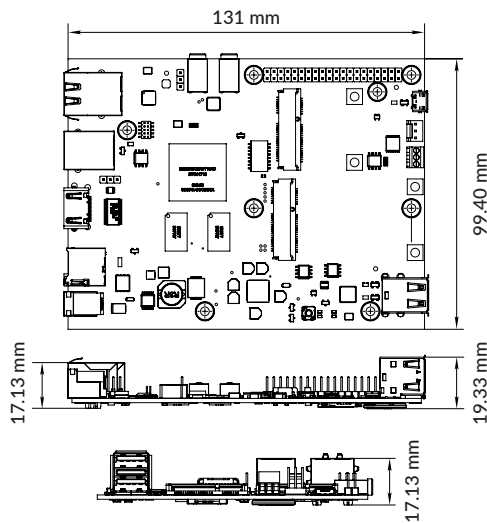
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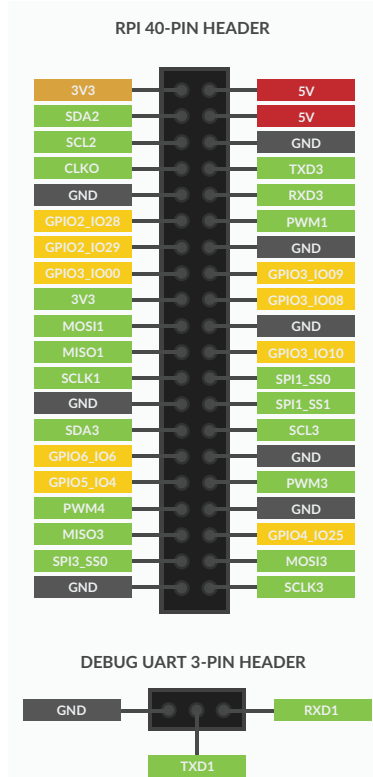


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CRYSTAL RPI PINOUT



SPECIFICATIONS

Processor	NXP i.MX 6DualLite - ARM Cortex-A9 MPCore
Processor Speed	1 GHz
Memory/RAM	2 GB, 64-Bit DDR800
Floating Point	VFPv3
SIMD	NEON
Graphics Processing Unit	Vivante GC880
3D GPU Support	OpenGL ES1.1/2.0
eMMC	8GB eMMC flash
SD Card	microSD Slot
HW Video CODEC	Multiple, H.264
HDMI	Audio/Video 1080p@24fps
HDMI Interface	HDMI Type A, HDMI PHY
Audio	2x3.5mm jack for Audio Input/Output
Wired Network	RJ45 - 10/100/1000 Mbps (Gbit Ethernet)
Wireless Network	Optional - Wifi Card (Mini PCIe Half Slot)
Mini PCIe 1	Half Size
Mini PCIe 2	Full Size (Cellular Modem support including nano SIM)
USB 2.0 Host	2 Dual Stacked Type A
USB OTG	1
CAN Bus	RJ11 and Industrial screw terminals
RS485	Industrial screw terminals
RS232	Industrial screw terminals
Status LEDs	2
I/O	Reset button
	Raspberry Pi® HAT compatible header
	3-pin UART header
	JTAG Test points
Power Management	PMIC PF0100
Power Input	12V DC @ 2A
Temperature Range	Commercial: 0° C to 85° C
	Industrial: -40° C to 100° C (optional)
Regulatory Approvals	FCC, CE, RoHS
Packaging	9x7x2 inches – 12.2 oz.
	23x18x5 cm – 345 grams

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