Model Information



Main Features

- Sitara AM3352 Cortex-A8 @ 600MHz
- 256MB DDR3
- 256MB NAND Flash (for boot)
- 1 x microSD-Slot
- 1 x Gigabit LAN
- 8 x RS232
- 16 x Digital-I/O (8 Input, 8 Output)
- 1 x WLAN 802.11b/g/n (optional)
- 1 x antenna socket (optional)
- 1 x Console serial Port (internal)
- Low Power, fanless, no cables
- Power over Ethernet supply
- Operating Temperature -20°C 65°C
- Debian GNU/Linux
- 19-inch mountable
- Starter kit available

Contact Online...

Baltos 1080

Quick Link: | Main Features | More Pictures | Overview | Application | System | Serial Ports | Digital Input / Output | Power and Environment | Mechanical | Software Specifications | Ordering Information | Options | Serial Null-Modem adapter 9PF-9PF, change male to female | Packaging |

More Pictures







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Overview

OnRISC Baltos 1080 is a fanless industrial embedded PC for 19-inch mounting. It is based on an ARM Cortex-A8 with NEON SIMD Coprocessor, up to 1GHz CPU clock speed. See <u>VS-SOM-AM335x</u> for more details. Low power consumption, wide temperature range -20°C to 65°C and flexible power supply (15-54V DC and Power-over-Ethernet) make it an ideal system for industrial automation. WLAN is available as well as Gigabit Ethernet. Models with further extended temperature range are available, allowing for remote installations.

The interfaces of serial ports and Digital Input/Output make it easy to connect various industrial devices to the Baltos.

The embedded computer runs Linux on ARM operating system Kernel 3.18. This system is installable on the internal NAND Flash memory, or on a microSD card in the internal slot. For boot from NAND Flash a system configuration with buildroot is supported. With Debian's repository database it is easy to install and update the free software on the Baltos. VS provides information for configuration and sample installations of Linux for Baltos.

Application

- Building automation system
- SCADA system
- Wafer fabrication system
- Print server

- Automatic warehouse control system
- Self-service banking system (ATM)
- Industrial / Factory / Laboratory automation

■ System

Hardware	 Sitara AM3352 ARM Cortex-A8 RISC CPU @ 600MHz 256MB DDR3 Real time clock with battery backup 	
Mass Storage	256MB NAND Flash memory (bootable)SD 2.0 / SDHC microSD-card slot (internal, bootable)	
Network	1x 1000/100/10 Mbps Gigabit Ethernet	
Wireless LAN	Option: IEEE 802.11b/g/n 2.4GHz SMA antenna socket	
Serial ports	8x RS232 high speed1x Console Port RS232 (internal)	
Digital Input/Output	 8x Relay Output signals 8x TTL Input signals, isolated wet contacts IRQ for input signals Terminal block connector 	
LED	1x Power, 1x WLAN,LAN: Link and Speed	to top
■ Serial Ports	<u>>BdCk</u>	to top
Features	8x RS232Highspeed UART, 128 Byte FIFOup to 1000 kbps	
Signals	TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND	
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■ Digital Input / Output		
Input	8x isolated input signals	
Contact	Wet contacts on clamp pairs provide 5V. To activate close contact by button / switch / relay /	
Output	8x relay signals on three clamps (normal open/closed)	
Switching	1A 30V DC0.25A 250V AC	
■ Power and Environment	<u>>Back</u>	to top
Power and Environment Power Connector	3-pin Terminal Block with Protective Earth	
Power Requirements	15 - 54V DC, 0.4A @ 15V, 6W	
Power over Ethernet	Alternative supply, presents as Class 0 Device (802.3af)	
Operating Temp	-20°C - 65°C	
Storage Temp	-20°C - 85°C	
Approvals	EMC: FCC Class A, CE Class AEnvironment: RoHS	
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■ Mechanical		
Dimension	196×147×44 mm³ (W×L×H)	
Weight	0.9kg	
Construction Material	SECC sheet metal (1mm)	
Construction Material Mounting	SECC sheet metal (1mm)19-inch RackWall mountDIN Rail	
	19-inch RackWall mountDIN Rail	to top

Debian:

Latest stable release available as ready-to-run SD card image or can be built/customized via vsdebootstrap project (Github)

Buildroot:

BSP with Kernel and bootloader patches and basic configuration (<u>Github</u>)

Yocto:

layer-baltos with Kernel and bootloder patches suitable for new projects or integration into already available projects (<u>Github</u>)

Buildroot and Yocto are suitable for installation to NAND Flash

■ Ordering Information		
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Options		
6689	WLAN Kit internal internal internal module 802.11b/g/n, pigtail and antenna Purchase time option, not for later retrofitting	
6830	Power supply adapter 15V DC, 1A	
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■ Serial Null-Modem adapter 9PF-9PF, change male to female

Starter Kit

4GB microSD card for Linux

Power adapter 15V

• Adapter cable for console port

• Documentation and Development Software on DVD

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Packaging

6835

Linux

Packing list

- OnRISC Baltos 1080 system
- Terminal blocks for Power Supply and Digital-I/O
- 19" mounting angles
- Wall mounting plates

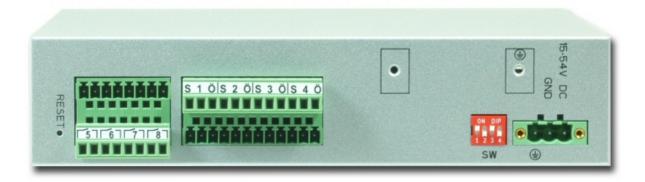
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Baltos 1080 rear side with sample Terminal blocks >Back



Baltos 1080 Rackmount Kit >Back



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