

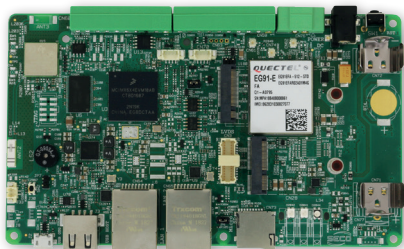
Single Board Computer



SBC-C23

Smart Edge Compute Unit based on NXP i.MX 6SoloX Processor

Industrial IoT multiprotocol gateway



HIGHLIGHTS

CPU
NXP i.MX 6SoloX

CONNECTIVITY
2x Fast Eth; WiFi; BLE; 3x Multicolor Signalling LEDs;
1x RS-232 port; 1x RS-485 port; 2x CAN port

GRAPHICS
Integrated Graphics Vivante GC400T, 2D and 3D HW accelerator

MEMORY
32-bit DDR3L memory soldered onboard

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Digital Signage -
Infotainment



Energy



Home
Automation



Industrial
Internet of
Things



Metering



Multimedia
devices



Surveillance



FEATURES

Processor	NXP i.MX 6SoloX , Single core Cortex®-A9 @ 1GHz + Cortex®-M4 core @ 227MHz	Other Interfaces	M.2 Socket 1 Key E 2230 (USB + PCI-e x1 interfaces) Slot M.2 Socket 2 Key B 2242 (USB interface) Slot microSIM slot or electronic SIM soldered on-board for the optional Modem and/or the M.2 Key B Slot 3x Multicolor signalling LEDs Reset Button Expansion PCB terminal block with: - 4x analog inputs - I2C - 2x PWM
Memory	32-bit DDR3L memory soldered onboard, up to 1GB	Power Supply	+12V _{DC} ; DC power jack and 2-poles PCB terminal block for voltage supply Optional Li-Ion Rechargeable battery
Graphics	Integrated Graphics Vivante GC400T, 2D and 3D HW accelerator OpenGL ES 2.0, OpenGL ES 1.1, OpenVG 1.1 supported	Operating System	Wind River Linux
Video Output	Optional Single Channel 18- / 24- bit LVDS connector w/ Touch Screen (I2C signals) Max resolution 1366x768 @60 Hz, 24bpp	Operating Temperature*	0°C ÷ +60°C (Commercial version) -40°C ÷ +85°C (Industrial version)
Mass Storage	8GB eMMC drive on-board µSD Card slot 1MB SPI Flash	Optional accessories	M.2 2230 Z-Wave module with on-board antenna M.2 2242 SmartMesh® wireless sensor module with on-board antenna
Networking	Up to 2x FastEthernet RJ-45 ports Optional Single Band or Dual Band WiFi (802.11 b/g/n) + BT LE combo module with on-board PCB antennas or u/FL connectors, factory alternatives Optional LTE-Cat4 Modem with integrated GNSS, with up to 3 external antennas	Dimensions	153 x 89,5 mm (6" x 3,5")
USB	1 x USB 2.0 Type-A socket 1 x USB 2.0 OTG on micro-AB connector	*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.	
Audio	On-board buzzer		
Serial Ports	All available on expansion connector: - 1 x RS-232 port - 1x RS-485 port - 2 x CAN port		



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Smart Edge Compute Unit based on NXP i.MX6 SoloX Processor

BLOCK DIAGRAM

