UDOO BOLT GEAR

Boxed solution based on AMD Embedded Ryzen V1605B Applications Processor

The Speed Force turned Mini PC



HIGHLIGHTS

CPU
AMD Ryzen Embedded V1605B

CONNECTIVITY
1x GbE; 2x USB3.0; 2x USB3.1 Gen2; Slot M.2 Socket 1 Key E 2230 for optional WiFi/BT combo

GRAPHICS
AMD Radeon™ VEGA 8 with 8 Compute Units GPU

MEMORY
2 x DDR4 ECC and non-ECC SODIMM Slots, Support DDR4-2400 memories up to 32GB total

AMD

Windows 10 Linux HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE

MAIN FIELDS OF APPLICATION

Coffee & Vending

Smart Devices

Digital Signage

FEATURES

Processor	AMD Ryzen™ Embedded V1605B with GPU AMD Radeon™ Vega 8, Quad Core Dual Thread @ 2.0GHz (3.6 Boost), TDP 12-25W
Memory	2 x DDR4 ECC and non-ECC SODIMM Slots, Support DDR4-2400 memories up to 32GB total
Graphics	GPU AMD Radeon™ VEGA 8 with 8 Compute Units DirectX® 12 supported H.265 (10-bit) decode and 8-bit video encode VP9 decode 4 independent displays supported
Video Interfaces	2 X HDMI® 1.4 / 2.0A 2 X DP AAlternate Mode on USB Type-C
Video Resolution	Up to 4K
Mass Storage	Optional SSD SATA Module slot M.2 Key B 2260 Optional NVMe Module slot M.2 Key M 2280 SATA 3.0 6 Gbps standard connector on external panel
Networking	1x Gigabit Ethernet RJ45 connector Slot M.2 Socket 1 Key E 2230 for optional WiFi/BT combo
USB	2 x USB 3.0 Type-A socket 2 x USB 3.1 Gen2 Type-C connector (alternate mode with DP), Dual Role Port (DRP), USB Power Delivery (USB-PD) 3.0
Audio	HD Audio codec Line Out + Mic In combo TRRS audio jack 3.5" connector S/PDIF Optical + Stereo Out Preamplified Stereo Speaker (up to 3W) on internal connectors
Serial Ports	2 x UART
Other Interfaces	Arduino Leonardo-Compatible I/O: - 12x analog inputs - Up to 23 Digital I/O (7 PWM) - 1 x UART, 1 x I2C, 1 x SPI 3 x GROVE Connectors: - 1 x Analog Input - 1 x UART or Digital I/O - 1 x I2C or Digital I/O EMBEDDED CONTROLLER I/O: - 2 x UART - 2 x I2C - 1 x SPI - WAKE# signal - 1 x Keyboard Scan - 1 x Fan Controller - 16 x GPIO
Other	Metal enclosure with VESA mounting holes, IR receiver (RC5 compatible), RTC battery
Power Supply	+19V_{DC} (60W), DC Power Jack USB Type-C Power Delivery sink profile 20V/3A(60W)
Operating System	Linux Windows 10 64bit
Operating Temperature*	0°C ÷ +70°C
Dimensions	130 x 130 x 70 mm

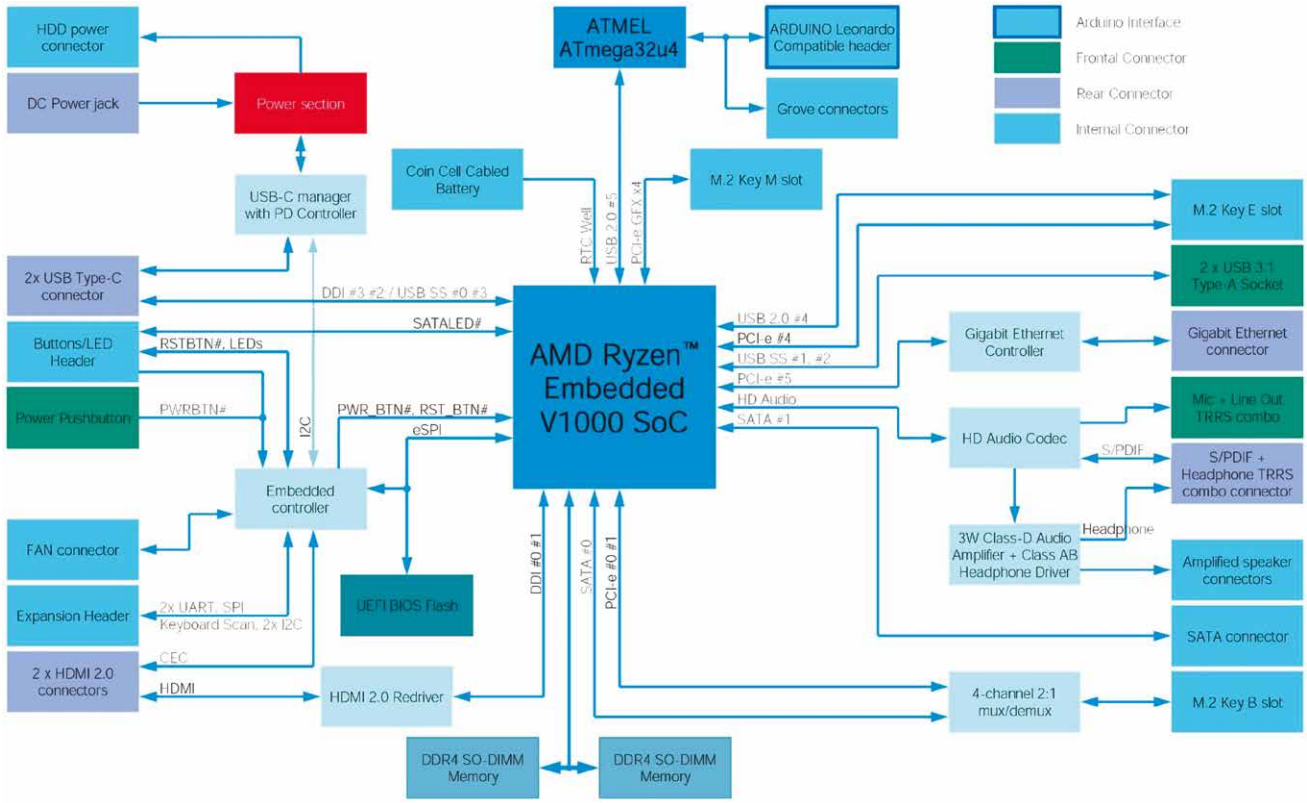
*Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated.

Information subject to change. Please visit www.edge.seco.com to find the latest version of this datasheet

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BLOCK DIAGRAM



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DEVICE MANAGER

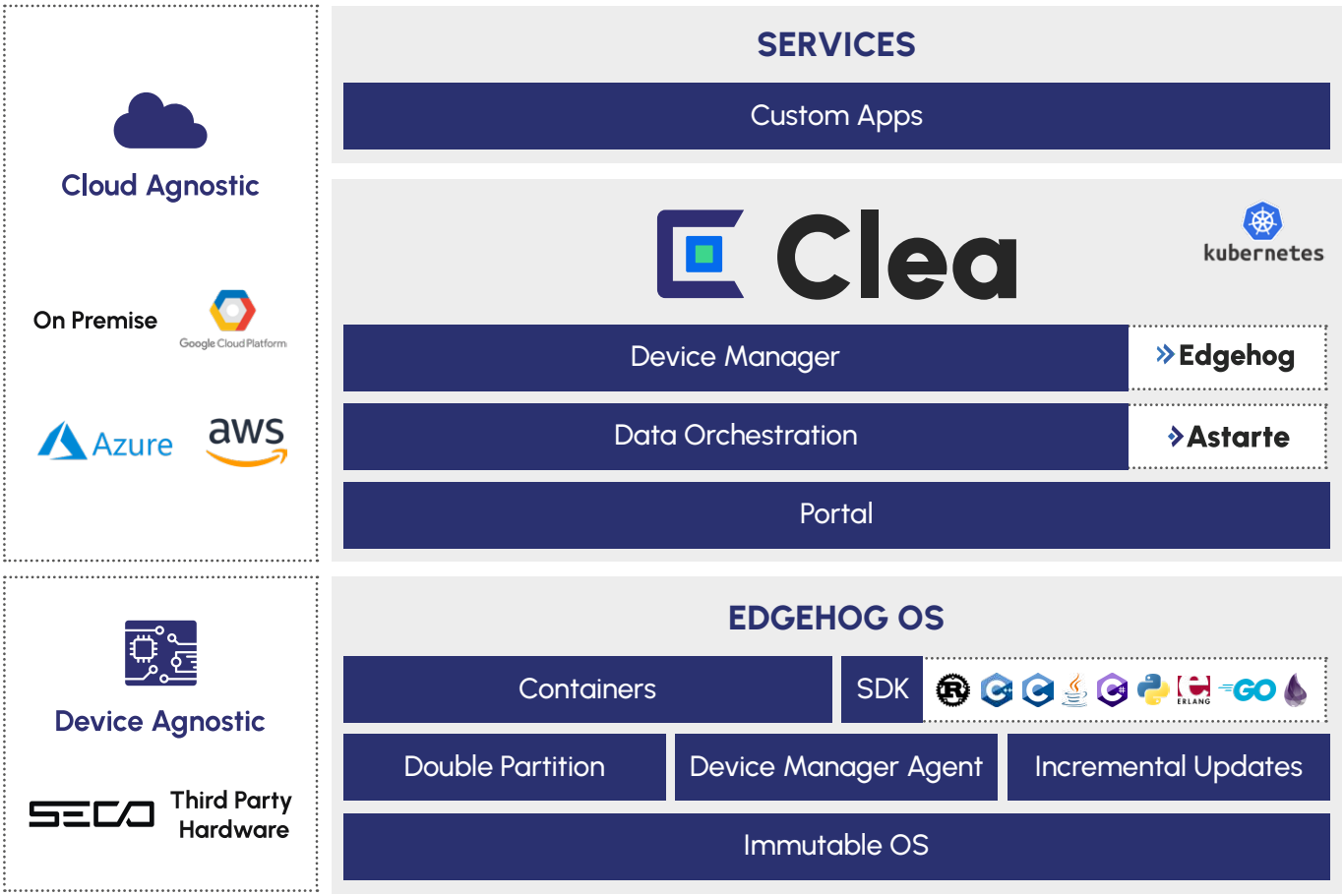
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PORTAL

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.



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CLEA DOCS

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