

Single Board Computer



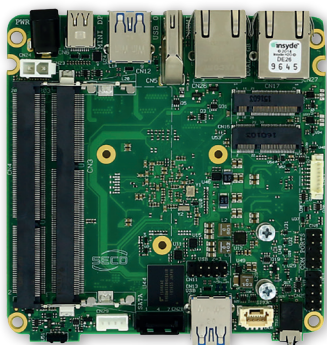
SBC-A80-eNUC

SBC with the N-series Intel® Pentium® / Celeron® and x5-Series Atom™ SoCs in the embedded NUC™ form factor

Multifunctional SBC on the eNUC form factor

Microsoft Azure

Certified



HIGHLIGHTS



CPU
N-series Intel® Pentium® and Celeron® SOCs



CONNECTIVITY
2x GbE, CIR sensor, 8x GPIOs



GRAPHICS
Integrated Graphics, three independent display support



MEMORY
2 x DDR3L SO-DIMM Slots with Dual Channel Support, up to 8GB DDR3L-1600

embedded NUC™



Windows 8.1

Windows 10

Windows IoT



DEVELOPMENT | SAMPLING | PRODUCTION

MAIN FIELDS OF APPLICATION



Digital Signage - Infotainment



HMI



Industrial Automation and Control



Info Kiosks



Industrial Internet of Things



Multimedia devices



Point of Sales

FEATURES

Processor	Intel® Pentium® N3710 , Quad Core @ 1.6GHz (Turbo Boost 2.56GHz), 2MB Cache, 6W TDP Intel® Celeron® N3160 , Quad Core @ 1.6GHz (Turbo Boost 2.24GHz), 2MB Cache, 6W TDP Intel® Celeron® N3060 , Dual Core @ 1.6GHz (Turbo Boost 2.48GHz), 2MB Cache, 6W TDP Intel® Celeron® N3010 , Dual Core @ 1.04GHz (Turbo Boost 2.24GHz), 2MB Cache, 4W TDP Intel® Atom™ x5-E8000 , Quad Core @ 1.04GHz (Turbo Boost 2.00GHz), 2MB Cache, 5W TDP	USB	2 x USB 3.0 Host ports on Type-A sockets 2 x USB 2.0 Host ports on internal pin header 1 x USB 2.0 Host port on M.2 Connectivity Slot
Max Cores	4	PCI-e	1 x PCI-e x1 port on M.2 Connectivity Slot
Max Thread	4	Audio	Audio available on HDMI and miniDP++ interfaces HD Audio codec Combo TRRS connector with LineOut and MicIn support
Memory	2 x DDR3L SO-DIMM Slots with Dual Channel Support, up to 8GB DDR3L-1600	Serial Ports	2 x RS-232 / RS-422 / RS-485 UARTS, on internal Pin Header
Graphics	Integrated Graphics Three independent display support HW decoding of HEVC(H.265), H.264, MPEG2, MVC, VC-1, VP8, WMV9, JPEG/MJPEG formats HW encoding of H.264, MVC and JPEG/MPEG formats	Other Interfaces	I2C Touch Panel connector Front Panel Pin Header CIR (Consumer InfraRed) sensor 8 x GPIOs
Video Interfaces	HDMI connector miniDP++ connector embedded Display Port (eDP) internal connector	Power Supply	+18V _{DC} ÷ +32V _{DC} recommended +15V _{DC} ÷ +36V _{DC} absolute RTC Battery
Video Resolution	HDMI, DP: up to 3840x2160 24bpp @30Hz, 2560x1600 24bpp @60Hz eDP: up to 2560x1440 24bpp @60Hz	Operating System	Microsoft® Windows 7 (32 / 64 bit) Microsoft® Windows 8.1 (32 / 64 bit) Microsoft® Windows 10 (32 / 64 bit) Microsoft® Windows 10 IoT Linux Yocto
Mass Storage	Optional eMMC drive on-board M.2 SATA SSD slot (Socket 2 Key B Type 2242 or 2260) microSD Card slot SATA 7p M connector	Operating Temperature*	0°C ÷ +60 °C
Networking	2 x Gigabit Ethernet ports	Dimensions	101.6 x 101.6 mm (4" x 4")

*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.

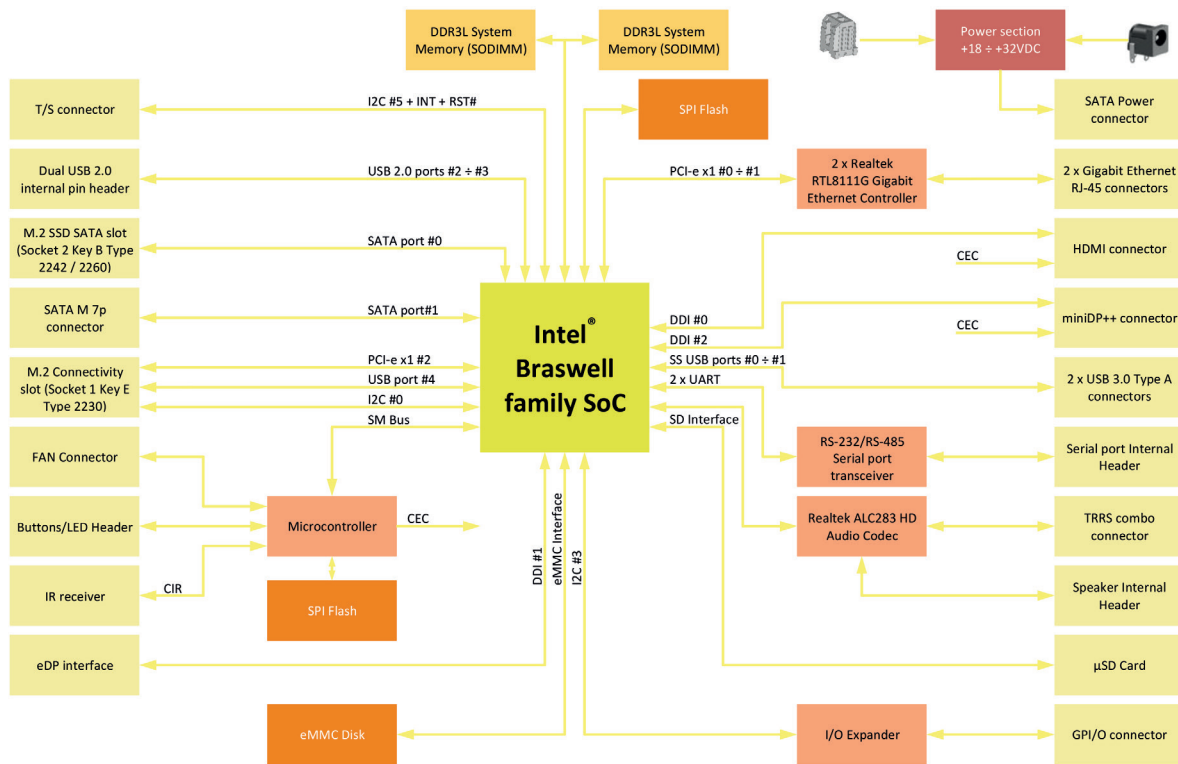


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BLOCK DIAGRAM



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