

Single Board Computer



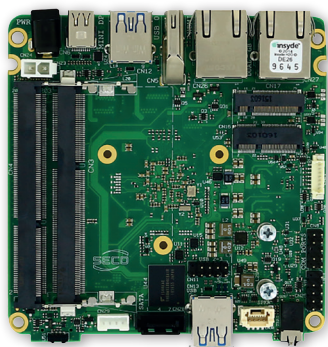
SBC-A80-eNUC

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



GRAPHICS

Integrated Graphics, three independent display support



CONNECTIVITY

2x GbE; CIR sensor; 8x GPIOs



MEMORY

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



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
	PCI-e	1 x PCI-e x1 port on M.2 Connectivity Slot		Audio	Audio available on HDMI and miniDP++ interfaces HD Audio codec Combo TRRS connector with LineOut and MicIn support
	Serial Ports	2 x RS-232 / RS-422 / RS-485 UARTS, on internal Pin Header		Other Interfaces	I2C Touch Panel connector Front Panel Pin Header CIR (Consumer InfraRed) sensor 8 x GPIOs
	Power Supply	+18V _{DC} ÷ +32V _{DC} recommended +15V _{DC} ÷ +36V _{DC} absolute RTC Battery		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 Microsoft® Windows Embedded Standard 7 (32 / 64 bit) Microsoft® Windows Embedded Standard 8 (32 / 64 bit) Linux Yocto
	Operating Temperature*	0°C ÷ +60 °C		Dimensions	101.6 x 101.6 mm (4" x 4")
	Memory	2 x DDR3L SO-DIMM Slots with Dual Channel Support, up to 8GB DDR3L-1600	*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.		
	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			
	Video Interfaces	HDMI connector miniDP++ connector embedded Display Port (eDP) internal connector			
	Video Resolution	HDMI, DP: up to 3840x2160 24bpp @30Hz, 2560x1600 24bpp @60Hz eDP: up to 2560x1440 24bpp @60Hz			
	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			
	Networking	2 x Gigabit Ethernet ports			

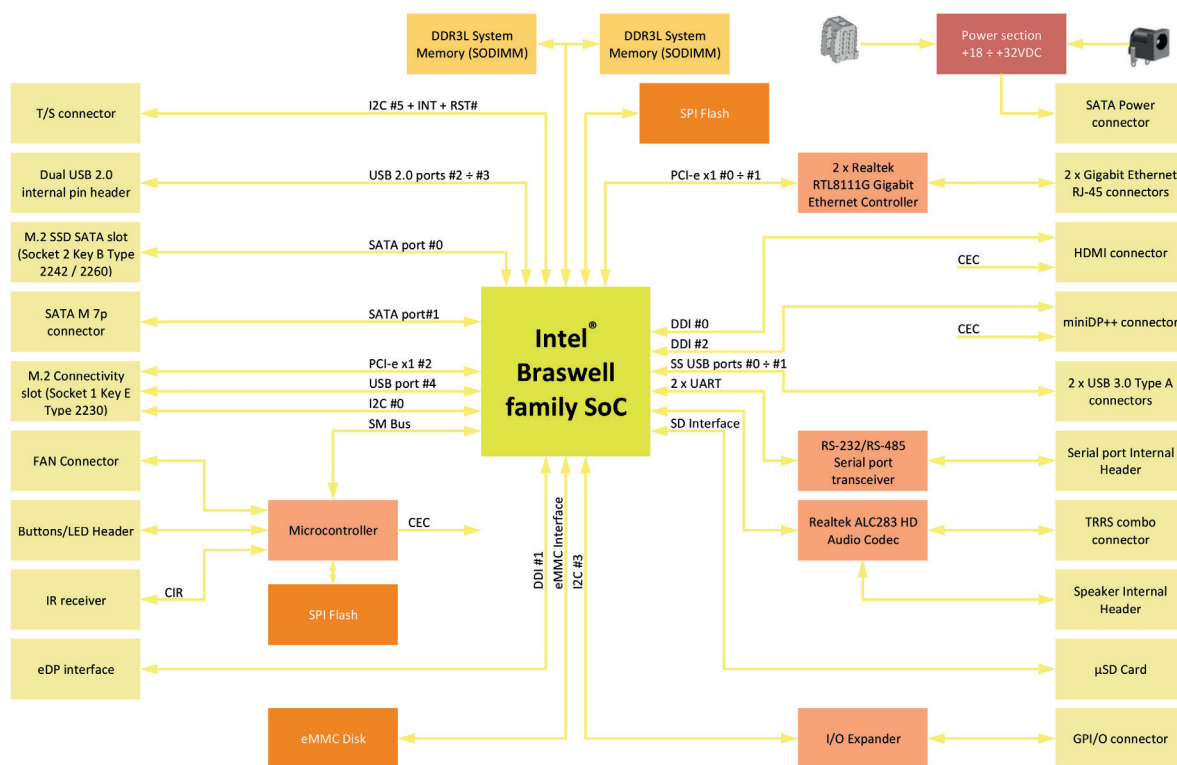


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BLOCK DIAGRAM



ORDERING INFORMATION

PN*	DESCRIPTION
SA80-1030-0000-C0	SBC - SBC-A80-eNUC - N3710 - 16GB eMMC
SA80-1040-0000-C0	SBC - SBC-A80-eNUC - N3710 - 32GB eMMC
SA80-2030-0000-C0	SBC - SBC-A80-eNUC - N3160 - 16GB eMMC
SA80-2040-0000-C0	SBC - SBC-A80-eNUC - N3160 - 32GB eMMC
SA80-3030-0000-C0	SBC - SBC-A80-eNUC - N3060 - 16GB eMMC
SA80-3040-0000-C0	SBC - SBC-A80-eNUC - N3060 - 32GB eMMC
SA80-4030-0000-C0	SBC - SBC-A80-eNUC - N3010 - 16GB eMMC
SA80-4040-0000-C0	SBC - SBC-A80-eNUC - N3010 - 32GB eMMC
SA80-5030-0000-C0	SBC - SBC-A80-eNUC - x5-E8000 - 16GB eMMC
SA80-5040-0000-C0	SBC - SBC-A80-eNUC - x5-E8000 - 32GB eMMC

*Additional configurations may be available. Please inquire for more information.

ACCESSORIES

PN	DESCRIPTION
CABKITA80	Connection Cables Kit for SA80
SA80-DISS-1	SBC - SECO eNUC p/n SA80 w/Intel Braswell processor family Heat Spreader (PASSIVE)



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