

Single Board Computer



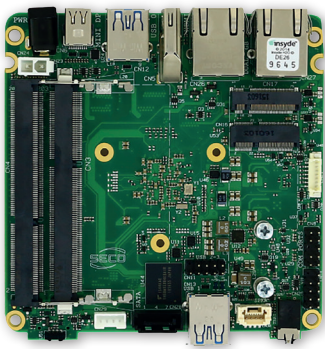
NOLAN

embedded NUC™ SBC with N-series Intel® Pentium® / Celeron® and x5-Series Atom™ SOCs

Multifunctional SBC on the eNUC form factor

Microsoft Azure

Certified

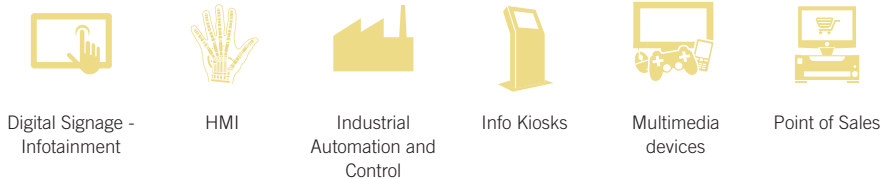


HIGHLIGHTS

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



MAIN FIELDS OF APPLICATION



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

