NS-Main Frame 1 INDUSTRIAL MINI PC

MINI PC POWERHOUSE, SEAMLESSLY CONNECTING TO SENSORS AND MORE..

NS Main Frame 128 GB is a powerful mini PC with super low power consumption. It's a perfect device for industrial and commercial applications. The NS Main Frame 128 GB isn't just a computer; with its integrated Arduino Co-processor, it effortlessly interfaces with sensors, gyroscopes, and beyond.

- **Dual-Band Frequency 2.4GHz/5GHz WiFi**
- **Intel® UHD Graphics 600**
- **Dual Gigabit Ethernet**
- **Integrated Arduino Coprocessor ATSAMD21 ARM® Cortex®-M0+**
- **Raspberry Pi 40-Pin Compatible**
- **2 x M.2 PCIe (B Key and M Key)**
- **Support Windows 10 & Linux OS**
- **Compatible with Grove Ecosystem**
- **No onboard eMMC but equipped with 128g SSD**

KEY SPECIFICATIONS

Category	Specification
Components	NS Main Frame 1 128GB
Processor	Intel® Celeron® J4105 (Frequency: 1.5 - 2.5GHz)
Coprocessor	Microchip® ATSAMD21G18 32-Bit ARM® Cortex® M0+
Graphics	Intel® UHD Graphics 600 (Frequency: 250 – 750MHz)
Memory	LPDDR4 8GB
Storage	External 128GB SSD
Wireless	Wi-Fi 802.11 a/b/g/n/ac @ 2.4/5 GHz HT160
Networking	Intel® I211AT PCIe Gigabit LAN, Supports Wake-On-LAN, Supports PXE
Audio	Microphone + headphone Combo Connector
USB	USB 2.0 Type-A x2, USB 3.1 Type-A x1, USB 3.1 Type-C x1
Video Interfaces	HDMI2.0a: Up to 4096x2160 @ 60Hz 24bpp / DP1.2a: Up to 4096x2160 @ 60Hz 24bpp
Expansion Slots	M.2(Key B, 2242/2280): SATA III, USB2.0, UIM; M.2 (Key M, 2242/2280): PCIe 2.0 ×4; Micro SD card Socket; SIM Card Socket; SATA III
TPM	Built-in TPM (2.0)
Power	DC Jack 5.5/2.1mm or Type-C PD; DC Jack input: 12-19V DC; Type-C input: 15V DC
Dimensions	130x120x50mm
Certifications	FCC, CE, TELEC

FEATURES AT A GLANCE

YOUR WIRELESS NETWORK
Develop a fully owned private LoRa network to capture, route and process IoT data for your application at multiple facilities.

RUGGED DURABILITY WITH A BROAD SENSOR ARRAY
Robust enclosures provide a resilient platform for recording and delivering data from within a range of harsh environments.

COMPREHENSIVE SECURITY AND RELIABILITY
Robust multi-layer security at each interface to safeguard your network at every level.

BROAD CERTIFICATION AND APPROVALS
CFR 21 (part 11), PPECB, FCC, IC, CE, ASNZS, NCC, and Bluetooth SIG listing.

THE PLATFORM FOR BUILDING ACTIONABLE IoT INTELLIGENCE
Route sensor data to the cloud with NviroSense's simplified wireless connectivity deployment.

PERSONAL SUPPORT FOR YOUR IMPLEMENTATION
Support works with NviroSense engineering to help configure and deploy your application.

APPLICATION AREAS

PHARMACEUTICAL WAREHOUSING

COLD CHAIN MANAGEMENT & FOOD SAFETY

IN-FIELD AGRICULTURAL MONITORING

INDUSTRIAL & MINING APPLICATIONS

NVIROSENSE SUPPORT

NviroSense

E: support@nvirosense.com

W: www.nvirosense.com