

NEXUS G

NEXUS G

is a versatile and robust device designed to seamlessly connect various industrial systems and devices, enabling efficient data exchange and management.

With a powerful CPU, ample memory, and extensive protocol support, it serves as a reliable bridge between diverse IoT ecosystems.



KEY SPECIFICATION



CPU

Running up to 1.5GHz, 64-bit architecture, ensuring smooth processing of data streams.



MEMORY

Up to 8 GB RAM for efficient multitasking and data handling.



STORAGE

Up to 32 GB storage, providing ample space for data storage and system files.



PROTOCOL SUPPORT

Extensive protocol support including TCP/IP, Modbus, OPC UA, and MQTT, facilitating seamless integration with various industrial protocols.



INPUT/OUTPUT ADD-ONS

- 2DI, 2DO for interfacing with sensors and actuators.
- Various interface add-ons including RJ45, HDMI 2.0, USB ports, and serial ports RS485/232 for versatile connectivity options.
- Extend I/O card.



ENCLOSURE

- Waterproof.

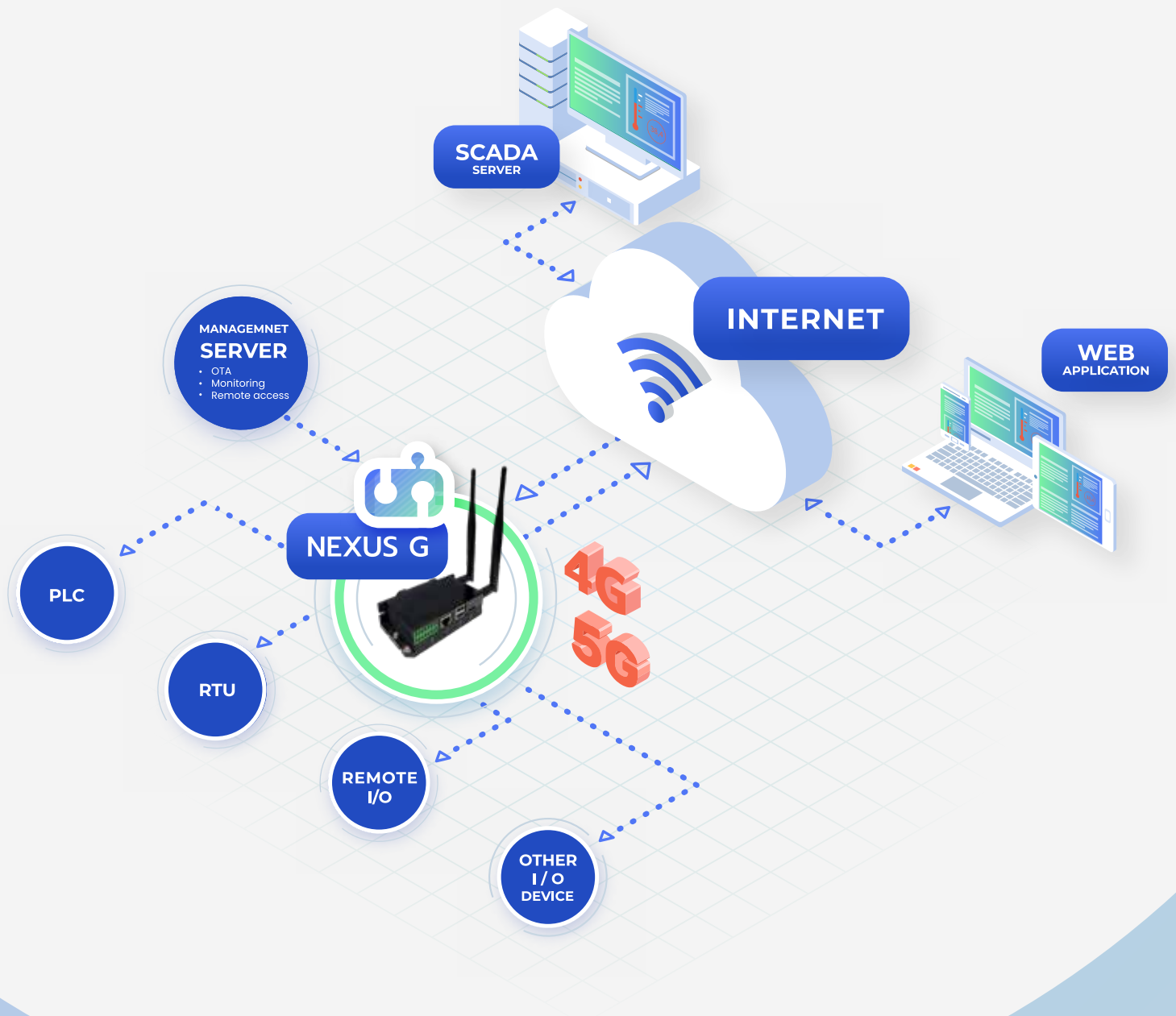
OTHER FEATURES

- RTC and watchdog timer ensuring accurate timekeeping and system reliability.
- Wide operating temperature range of -20 -60 degrees Celsius.
- Celsius, suitable for harsh industrial environments.
- MQTT protocol support for efficient messaging between IoT devices.
- Optional add-ons for hardware management, software update management, and status monitoring tool support for streamlined device management.
- Optional add-ons including UPS, encryption chip, power and connection LED status indicators, and surge protector, enhancing device resilience and security.
- Optional waterproof enclosure.



SPECIFICATION

NEXUS G



CPU

- Quad core
- Running up to 1.5GHz, 64bit

MEMORY

- Up to 4 GB RAM

STORAGE

- Up to 32GB eMMC / SSD

PROTOCOL SUPPORT

- TCP/IP
- Modbus
- OPC UA
- MQTT

COMMUNICATION

- Wi-Fi IEEE 802.11 b/g/n/ac
- BLE5.0 Bluetooth 5.0
- Gigabit Ethernet/1000BASE-T
- One Mini PCIe slot support for LTE / LoRaWAN / Zigbee or etc.*

INPUT / OUTPUT

- 2DI, 2DO
Extend I/O card support

OS

- Linux support

INTERFACE

- 1x RJ45 10/100M/1000M
- HDMI 2.0
- Up to 2x USB
- Serial port RS485/232
- Antenna socket support
- M.2 2242 socket support

OTHERS

- RTC
- Watchdog timer
- 12 - 36Vdc support
- -20 -60 Celsius operation temperature
- Power and Connection LED status

OPTIONAL

Hardware

- UPS (SuperCap)
- Encryption chip
- Configuration/Data transfer cable

Outdoor Enclosure

- UV-Resistant Plastic or Aluminum
- Waterproof SMA or N-Type or TNC
- Waterproof 2-Pin panel mount connector or waterproof cable gland
- Waterproof X-Pin panel mount connector or waterproof cable gland (Number of Pin depend on selected interfaces add-ons)

Management

- OTA
- Monitoring
- Remote access

IMPLEMENT SOLUTIONS

IoT gateway empowers seamless connectivity, scalability, and efficient data management.

The deployment of IoT gateways to implement advanced solutions or integrated with platform in areas such as environmental monitoring, machine control systems, water management systems, and sensor networks. Each of these domains demands robust, reliable, and flexible infrastructure to handle dynamic conditions and diverse data streams.

THE IOT GATEWAY FACILITATES THESE REQUIREMENTS BY

DATA AGGREGATION

Collecting and harmonizing data from a variety of sensors and devices with differing communication standards

EDGE COMPUTING

Processing data locally at the gateway to enable real-time decision-making, reduce latency, and minimize the load on cloud systems.

SECURE CONNECTIVITY

Establishing a secure communication channel between edge devices and central platforms, ensuring data integrity and confidentiality.

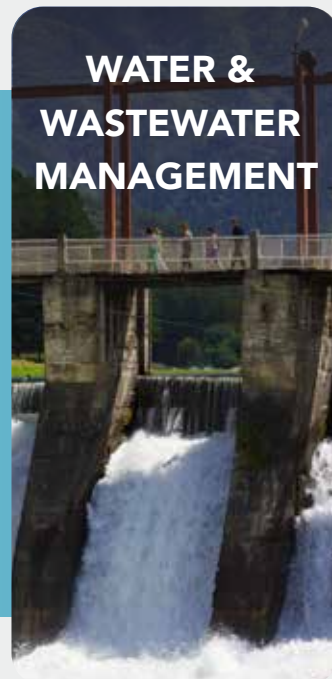
SCALABILITY AND INTEGRATION

Supporting seamless integration with existing systems and the scalability to accommodate additional devices as needs evolve.

Nexus G Model selection

NX -	X	X	X	X	X	X	Description
Memory	1 - 4						1GB / 2GB / 4GB
Storage		8 - 32					8GB / 16GB / 32GB
UPS			0 1				Without With
Encryption chip				0 1			Without With
Outdoor enclosure & connecting					0 1		Without With
Management tools						0 1	Without With

SOLUTIONS





NEXUS G

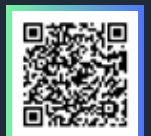


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