

# Nitrosoft product portfolio

## OEM software components & devices for M2M network management.

- Network communication management
- Mobile technologies (GSM, SMS, GPRS) & GPS drivers
- Wireless-LAN technology drivers (Wi-Fi, Bluetooth)
- Low power wireless technologies drivers (Wavenis, ZigBee, NFC, Wireless M-Bus, Z-Wave)
- Win32 & WinCE (C#, VB .NET, Java)
- M2M network management middleware
- 3D network viewer and monitoring software
- Video & Multimedia application software
- RTLS innovative platforms, devices & architectures

### M2M MARKETS



### INNOVATIVE DESIGNS



### SOFTWARE DESIGN & DEVELOPMENT



### OEM COMPONENTS



SERVED MARKETS	SOLUTION FEATURES	PRODUCTS
Advanced metering & energy efficiency.	M2M remote management of WAN & last-mile WSN. Fully bidirectional network operation	Software Development Kits User applications
Home, industrial & building automation.	M2M network monitoring 3D network viewer	Windows services Support & training
Asset management IPS/RTLS Personnel tracker, Cold chain management	3D network controller Multi-network monitoring	eRFquake devices eRFquake SDK
Smart cities	Low cost gateway management with dynamic IP@ Advanced Ground Server web architecture	Wavenis SDK (Wavenis Wireless sensor network)
Alarm & security	Multi-tier architectures Local and remote network monitoring	ASP.NET Apps open-source samples

Combine our Radioweb™ software components and innovative devices with yours, and build your M2M solution with a fast time-to-market.

## Software components

NS.Lib.dll	DLL software component compatible with Windows PC or CE platforms. Provides Wide Area Network (WAN) communication services to manage any data exchanges with servers, clients, and fixed & mobile gateways: HTTP, TCP-IP, FTP, file transfer, data encryption (AES-128), file compression (zip), data logging with time stamp, event manager, hot software upgrade manager.
NS.WSNdb.dll	DLL software component. Network mapping monitor. Provides network infrastructure mapping for heterogeneous M2M networks consisting of both WAN & WSN such as Wavenis, Zigbee, Z-Wave, NFC technologies.
NS.WSNdb.Viewer3D.dll	DLL software component. DirectX engine that provides a 3D-world representation of your wireless sensor network. Allows direct interaction with devices located on your floor plan. Provides Google Earth mapping and import/export features.
NS.Admin.exe	EXE software component. Man Machine Interface (MMI) & Plugin container. Provides MMI services for M2M monitoring. Viewer of sensor network topology and architecture. Download and transfer of configuration files. Plugin configuration & update. User notification (sms, e-mail)
NS.Server.dll	DLL software component. Provides data routing services from the host Ground Server. Manages file & data transfer between remote gateways and clients software (laptops, mobiles, companion software on Ground Server). DLL & Plugin software revision management. Data logging of events & alarms from both WSN & application client software.
NS.RunTime.exe	Exe software component. Hosts the services and process used by fixed and mobile gateways to manage a collection of client plug-ins and communications with the back-end server.
NS.Plugin.Wavenis.dll	DLL software component. Provides connection services to Wavenis™-enabled devices over the IP network. Emulation/connection to any GPRS/Wavenis-enabled device. Emulates a dual-mode IP-Wavenis device to grant a remote application control over any Wavenis access point.
NS.eRFquake.dll	DLL software component Software for the deployment & use of RTLS Wireless networks. Provides localization, track and trace services for long-range UHF-based RFID devices. Suited for asset management, personnel and sensor tracking

## Software Development Kits (SDK)

Nitrobox-PC SDK	Nitrobox-PC SDK consists of NS.Runtime, NS.Lib, NS.Plugin.Wavenis, NS.WSNdb, NS.WSNdb.Viewer3D to provide a toolbox containing all the communication and interaction tools to have a remote site communicate with a distant server.
Nitrobox-CE SDK	Nitrobox-CE SDK is suited for platforms with Windows-CE operating system. Extensively used in M2M network monitoring, this field-proven remote-gateway oriented suite provides remote site management from your central offices.
Nitrobox-Server SDK	Running on Windows platforms, Nitrobox-Server SDK is the central location through which all your remote gateways can be monitored.
Wavenis-3D SDK	Designed for a wide range of Wavenis demanding applications, Wavenis-3D SDK comes fully-loaded with network management features and Viewer3D management of your Wavenis-enabled wireless sensor network. Provides full visual control of your entire wireless network architecture.

## Innovative RTLS devices: long range active RFID

eRFquake	State-of-the-art, ultra-low power and long-range active RFID device. Ideal for people and asset management with RTLS features. Accommodates various wireless technologies and third party sensors and provides accurate locating information.
Custom designs	We create custom devices the requirements of your application.