



# 2N<sup>®</sup> SmartCom PRO

Wireless device management over IP



## Advanced M2M solution with Centralized Management

The 2N<sup>®</sup> SmartCom PRO, a sophisticated machine-to-machine solution, provides both transparent and secure communication which is protocol independent. This makes it a universal solution that can connect to any device and can be managed as if you were locally connected. 2N Server software solution offers Centralized Management for thousands remote devices worldwide.

### Main Features:

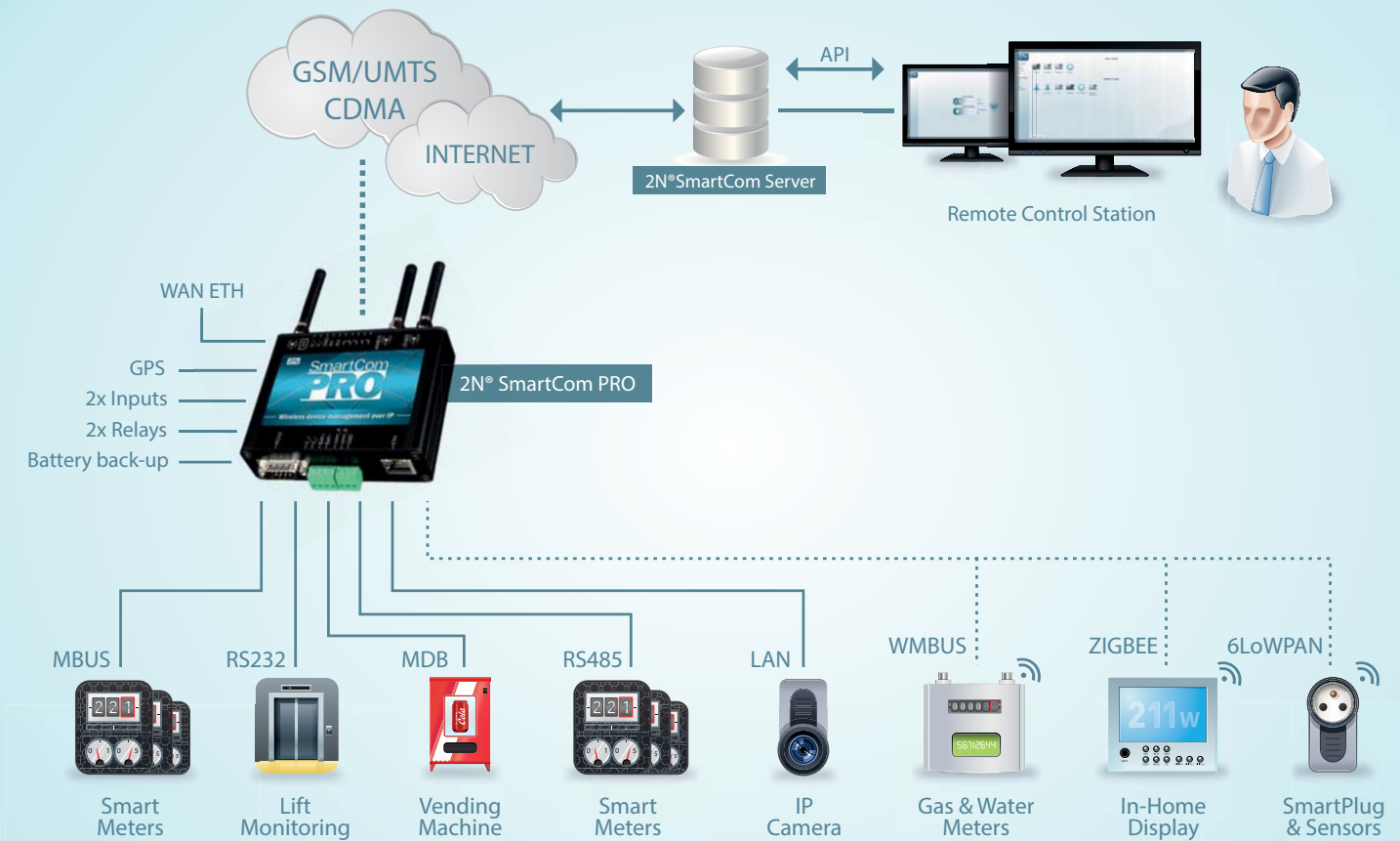
- Wireless IP monitoring & control over GPRS/UMTS/CDMA
- Support devices with a RS232, RS485, M-Bus, MDB, S0, Ethernet
- Support devices with Wireless M-Bus, ZigBee, 6LoWPAN, KNX RF
- Centralized management software solution
- Built-in relays & inputs for sensors, GPS optional
- Protocol independent
- Secured communication
- Programmable functionality

### Examples of Usage:

- Multi-Utility Smart Metering
- Energy management systems
- Vending machines
- Building automation remote control
- Critical applications remote control
- Sensors area remote control
- Lift monitoring



# M2M Network



## Technical specifications

### GSM/UMTS/CDMA

Quad Band GSM	850/ 900/ 1800/ 1900 MHz
GPRS	Class 10
Quad Band UMTS	800/850/1900/2100 MHz
GPS	Only for UMTS/CDMA
SIM card	Plug-in 3V/1V8 (small) Embedded SIM (optional)
Antenna	50 Ω SMA connector

### Interfaces

RS232	D-sub 9 pin 300 - 115 200 bps Full modem
RS485, M-Bus or second RS232	Plug-in screw connector
2x built-in relays	Max. carrying current: 2A Max. switching voltage: 250 VAC / 220VDC Max. switching power: 62.5VA / 30W
2x configurable inputs	Analog 0-20mA Analog 0-10V Digital with adjustable level SO pulse input

### Optional Interfaces

Ethernet	100Mb/s
2x wireless interfaces	Any two interfaces of Wireless M-Bus/IEEE 802.15.4/KNX RF 50 Ω SMA connectors
Wireless M-Bus	868MHz, 169MHz, 433MHz High power (optional)
IEEE 802.15.4	ZigBee PRO, SE/HA profiles 6LoWPAN High power (optional)
Other wireless	KNX RF, RC 232, TinyMesh
GPS	gpsOne/gpsOneXTRA

### Communication

TCP/IP stack
AES 128 or AES 256 Encryption
SSL
SMS setup and alerts

### Data handling

Data logging	8MB internal Flash memory
UDF	User defined functions
Optional	Extended data logging with FRAM
RTC	With supercap backup

### Power

Power supply	5-50V DC
Power consumption	Up to 7W (including charging)
Backup	12/6V Pb battery with automatic charging

### Physical & Environmental

Dimensions	100x105x30 mm
Mounting	DIN Rail ( optional )
Operating temperature range	-40°C to + 85 °C
Operating humidity	0 % to 80%
Protection level	Outdoor/IP67 version available

### Software

2N® SmartCom Server	Management of 2N® SmartCom devices Firmware Over The Air ( FOTA ) Device Configuration Over The Air Event / Alarm management Application Programming Interface (API)
2N® SmartCom Control Panel	Grafical Interface for device management User/Group management Virtual ports setting 2N® SmartCom Server setting
2N® SmartCom Configuration Tool	



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