



Advanced M2M solution with Centralized Management

The 2N[®] 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:

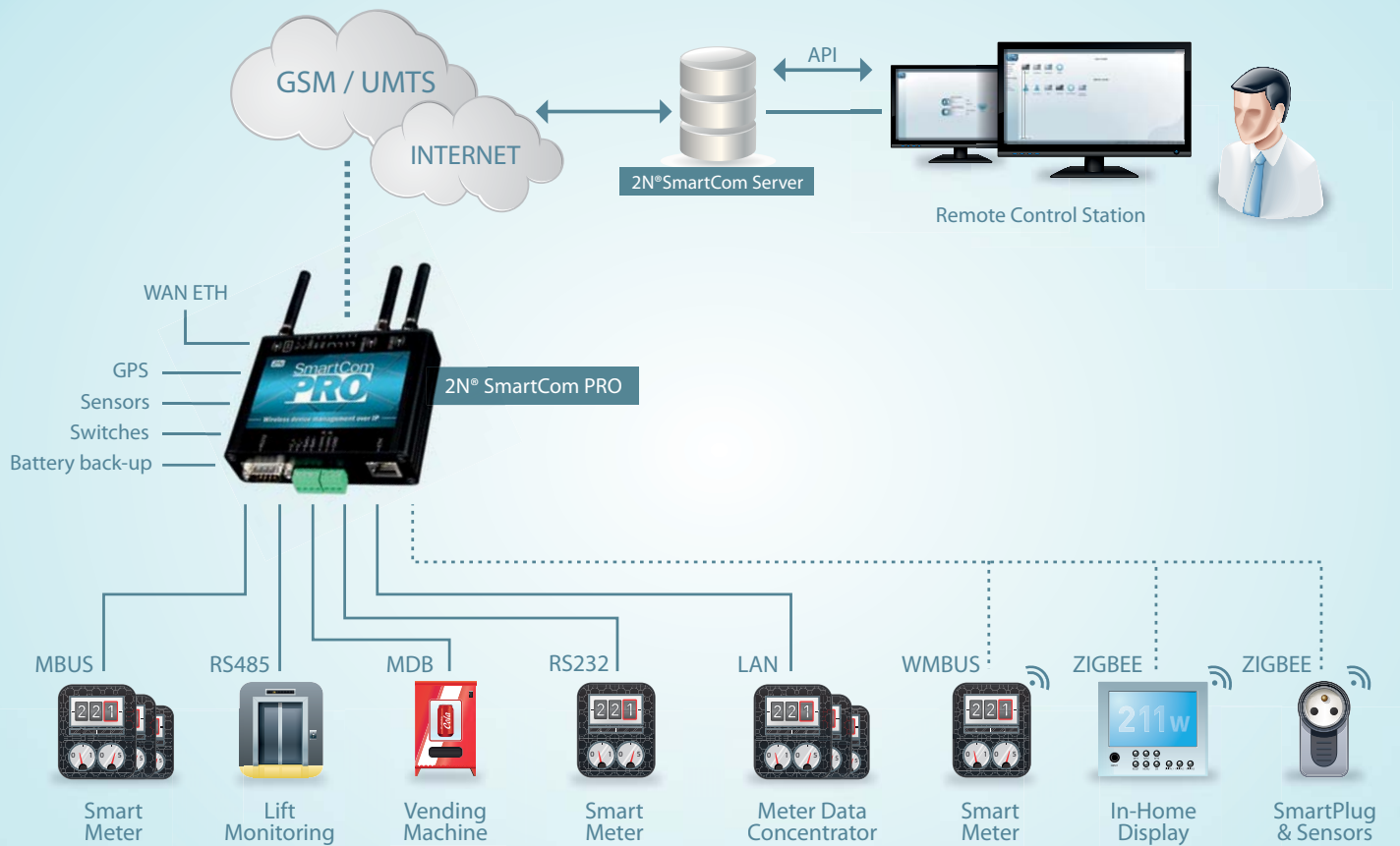
- Wireless IP monitoring & control over GPRS/UMTS/CDMA
- Support devices with a RS232, RS485, M-Bus interface, Ethernet
- Support devices with Wireless M-Bus, ZigBee, 6LoWPAN, KNX RF
- Centralized management software solution
- Built-in relays & inputs for sensors
- Protocol independent
- Secured communication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

Examples of Usage:

- Smart metering & energy systems
- Vending machines
- Lift monitoring
- Building automation remote control
- Critical applications remote control
- Traffic control and monitoring systems
- Sensors area remote control



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	
Optional RTC	Extended data logging with FRAM 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	



2N TELEKOMUNIKACE a.s.

Modřanská 621, 143 01 Prague 4, Czech Republic, Tel.: +420 261 301 500, E-mail: sales@2n.cz, www.2n.cz