2N® SmartCom PRO
Wireless device management over IP

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.
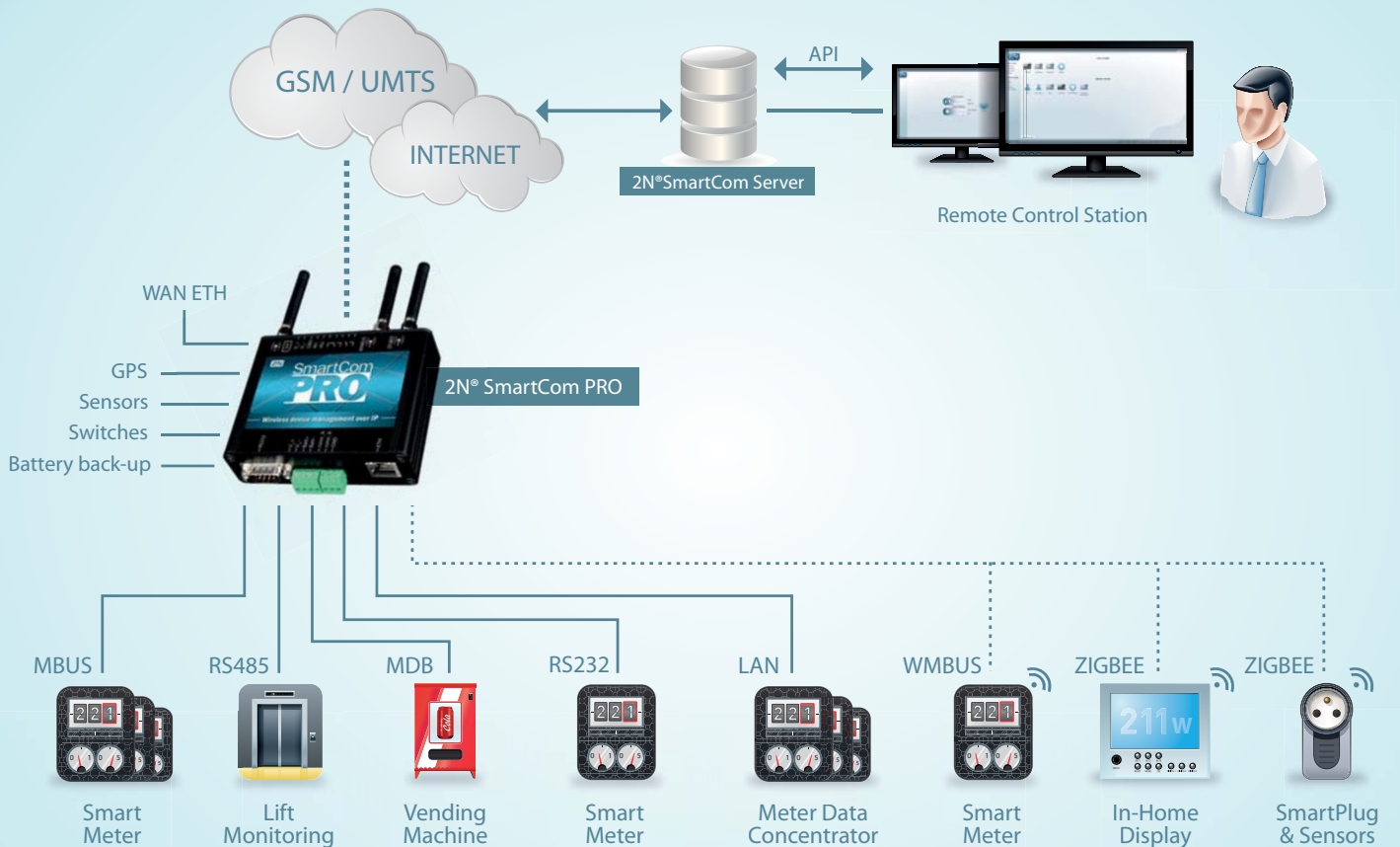
Main Features:

- 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

GSM / UMTS

INTERNET

API

2N®SmartCom Server

Remote Control Station

WAN ETH

GPS
Sensors
Switches
Battery back-up

2N® SmartCom PRO

MBUS	RS485	MDB	RS232	LAN	WMBUS	ZIGBEE	ZIGBEE

Smart Meter | Lift Monitoring | Vending Machine | Smart Meter | Meter Data Concentrator | Smart Meter | In-Home Display | SmartPlug & Sensors

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
	S0 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	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	