The fourth industrial revolution boosts smart manufacturing while enhancing efficiency and competitiveness. Digicom lives in this environment.

**EDGE 1000
Code 8Exxxx**

INDUSTRY

Edge Computer IoT

- **Multiprotocol**
- **2 insulated RS485 serial ports**
- **1 10/100/1000 GIGA LAN port**
- **Wi-Fi 2.4GHz (dual-band optional)**
- **2 Opto-insulated Digital Outputs**
- **Linux Operating System**
- **Encryption (optional) (TPM optional)**
- **ARM Cortex A7 Processor @650MHz**
- **256MB RAM expandable up to 512MB)**
- **4GB Flash (expandable up to 32GB)**
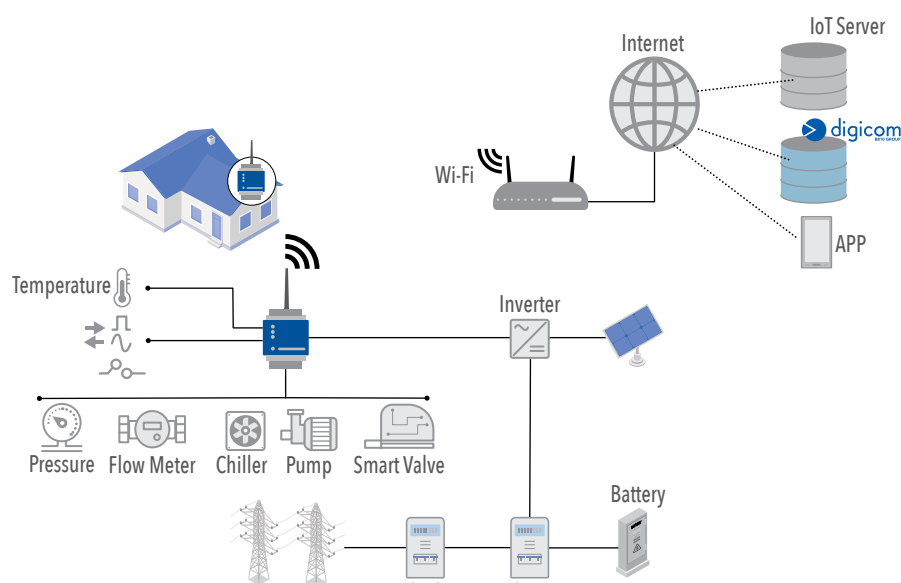- **Real Timer Clock**
- **4 Status Leds**

Compact in size but with powerful c**omputing capacity**, EDGE 1000 is the solution designed for all "**Smart Grid Controller**" and the management of smart networks.

EDGE 1000 is also suitable for all upgrade solutions in Smart Building applications, where the use of an **EDGE solution** is preferred if compared to old BAS/BEMS systems.
EDGE 1000 is based on a stable and performing **Linux** Embedded platform (up to 1500 points) able to use standard protocols.

EDGE 1000 is used in monitoring and in the remote control of renewable sources and bidirectional energy flows of inverters and storage batteries or other electrical loads as in **UVAM applications** (Aggregate Virtual Mixed Units).

In can be used in combination with **third-party software** platforms, both local and cloud-based, for the implementation of integrated systems for the management of electricity flows in smart networks and energy communities.

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TECHINICAL FEATURES

MAIN
- Processor: ARM Cortex A7 single core @650 MHz;
  Optional: Dual core @800 MHz;
  Optional: Encryption (AES, DES/TDES - 128, 192 or 256 bit) with internal co-processor
- Memory (RAM): 256 MB (expandable up to 512MB) DDR3
- Flash Memory: 4GB (expandable up to 32) eMMC
- RTC: Real Time Clock (7 years backup CR1220 battery)
- Operating System: Linux Embedded, remote upgradable (OTA)
- 1 Power On/Off button
- 1 Reset button
- 2 programmable LEDs on event
- Status, Power, LAN/Internet LEDs

CONNECTIVITY
- LAN: 1 Gbit Ethernet (RJ-45 connector with standard LEDs)
- Serial ports: 2 insulated RS485 (5kV)
- Wireless: Wi-Fi 802.11b/g/n (optional 802.11ac) with SMA external antenna

INPUT/OUTPUT
- Output: 2 Open Collector (max 80 Vdc and 80 mA) 3,75 kVrms opto-insulated, PWM up to 30 kHz)

POWER
- 5VDC 1A through external power supply
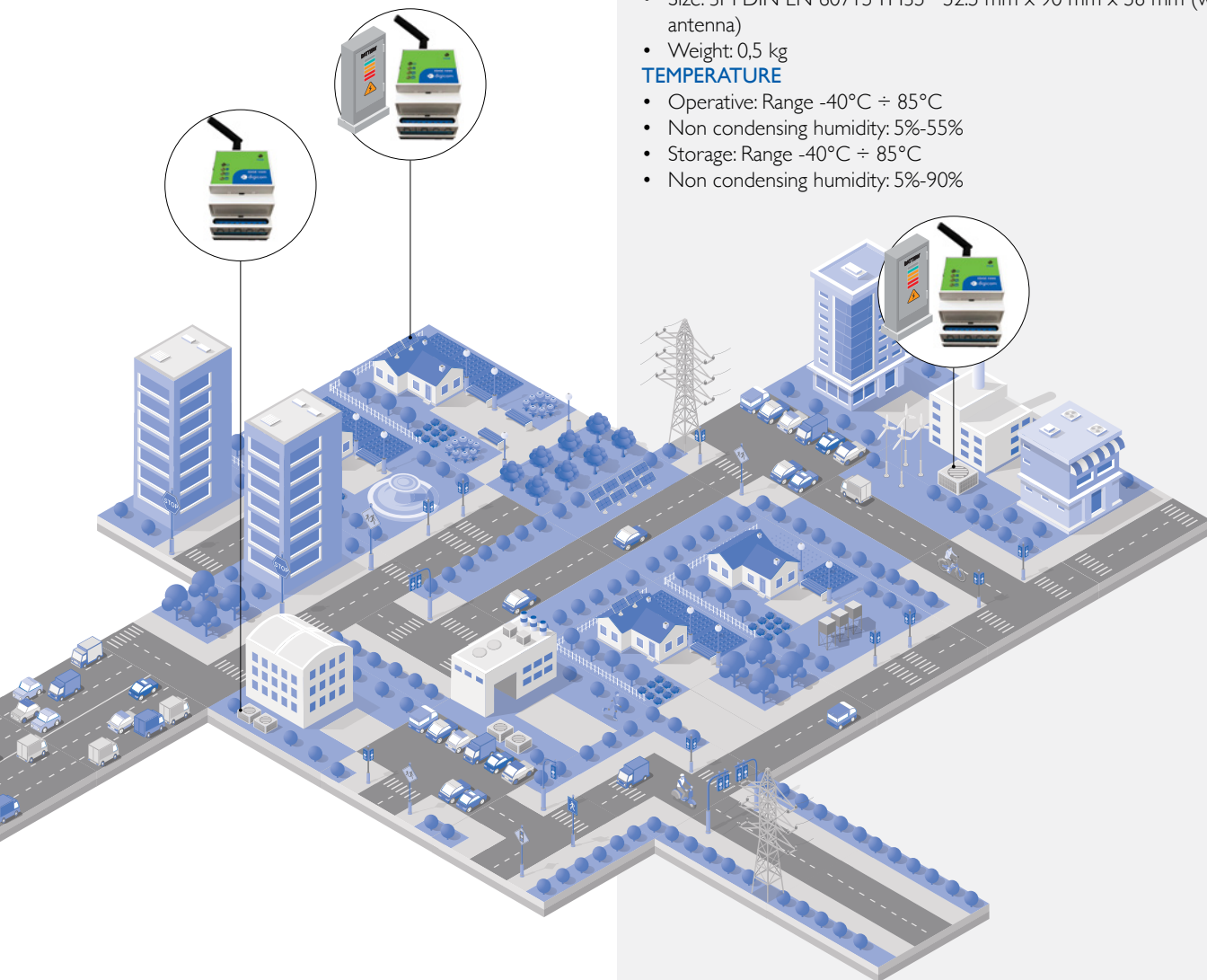
SECURITY
- Optional: TMP chip (Trusted Platform Module TPM 2.0)

CASE
- Material: PC/PPO (UL 94 V-0)
- Size: 3M DIN EN 60715 TH35   52.5 mm x 90 mm x 58 mm (without external antenna)
- Weight: 0,5 kg

TEMPERATURE
- Operative: Range -40°C ÷ 85°C
- Non condensing humidity: 5%-55%
- Storage: Range -40°C ÷ 85°C
- Non condensing humidity: 5%-90%

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