

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



EDGE 3000
Code 8Exxxx

EDGE computer for IoT Ecosystems

- **Multiprotocol (wireless and wired)**
- **Digital/Analog I/O Inputs/Outputs**
- **Integrated Linux Operating System (JVM)**
- **ARM Cortex A7 Dual core processor @ 1Ghz**
- **Integrated 4G module available**
- **8GB Flash (expandable up to 32GB)**
- **Internal memory up to 128 GB microSDHC**
- **1 LAN Giga + 1 LAN 10/100 Mbps**
- **2 RS485 serial interfaces**
- **Digital and Analog inputs**
- **Input for temperature probes**
- **Digital outputs**
- **Wi-Fi, Bluetooth, Wireless 169 or 868MHz**
- **Digicom Framework support**
- **Third Party Framework Support:**
FIN Framework
AWS IoT Green Grass
IBM EDGE
openHAB
Node-RED

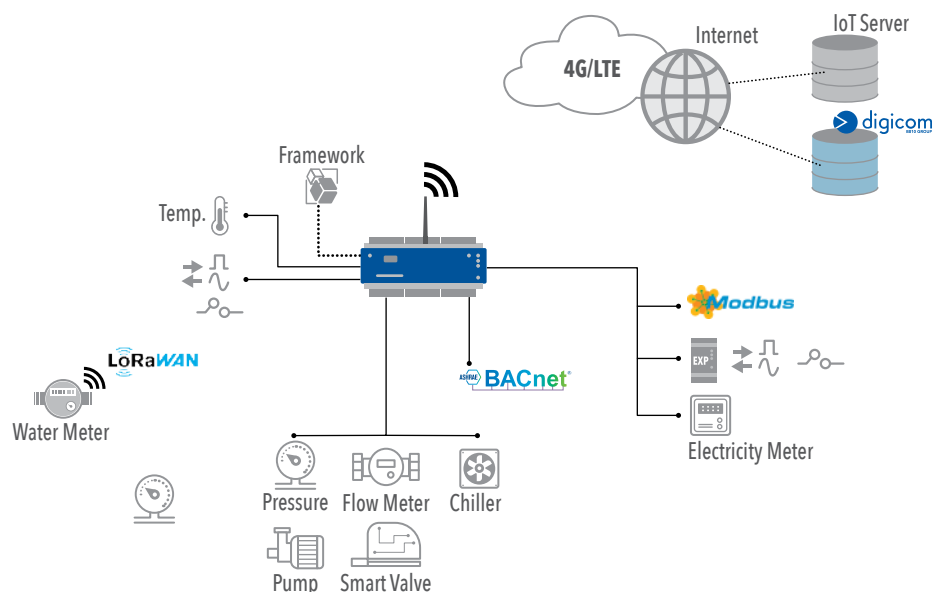
EDGE 3000 is used in **different application environments**, that allows full configuration, modularity and scalability.

Designed to meet the new intelligent processing needs in **Smart Building** and Energy Management applications.

It has been developed on a versatile and high-performance hardware platform, EDGE 3000 takes full advantage of the solid embedded **Linux** platform to offer a flexible and configurable software package.

EDGE 3000, used in **combination with third party software**, operates in local and Cloud environments for the integration of controls and supervision systems. Among the main installable suites you find FIN FRAMEWORK by J2Innovation (Siemens Group) or OSGI OpenHab.

EDGE 3000 offers a powerful and flexible environment for designers, System Integrators and OEMs.



EDGE 3000 can be used as EDGE computer or even as a Gateway/Hub. It can equip up to 12 communication protocols according to versions.

EDGE 3000 can also **monitor and save/store the data** supplied by 1G and 2G energy meters via PowerLine through a proper adapter.



AVAILABLE PROTOCOLS

- wM-Bus (or Wireless M-BUS)
- ModBUS
- BacNET
- LoraWAN
- ZigBee
- Zwave
- KNX
- DImS



TECHNICAL FEATURES

MAIN FEATURES

- ARM Cortex A7 dual core processor @1 GHz
- 1 GB DDR3 RAM (upgradeable up to 2GB)
- 8 GB Flash Memory (upgradeable up to 32GB)
- 128 GB microSDHC Internal Memory
- Up to 128 GB microSDHC
- Real Time Clock (72 hours backup)
- Linux and JVM embedded, compliant with OTA update, compliant with OSGi, FIN FRAMEWORK, IBM EDGE and other softwares
- MQTT publication/subscription
- Local and remote configuration via internal WEB server
- 3 buttons (power on /power off, programmable function key, WPS)
- 1 reset/restore button
- 1 RGB LED for the displaying of programmable events
- 4 Status LED: 1 power supply, 1 LAN, 1 Internet, 1 LDN (Local Device Network), 1 connection status
- 1 40 pin connector for external touch screen (requires adapter)
- 1 HDMI 1.4 monitor port

CONNECTIVITY

- LAN
 - 1 Gbit Ethernet (RJ45) + 1 Fast Ethernet 10/100 Mbps (RJ45)
 - 2 optoisolated RS485 serial ports
 - 1 port CAN Bus
 - 4 ports USB 2.0 Host
- Wireless
 - Wi-Fi 802.11 b/g/n with internal antenna (802.11 ac optional)
 - Bluetooth 2.1/3.0 EDR/4.2 BLE with internal antenna
 - NB-IoT or alternatively 4G/3G/2G module with SMA connector
 - Optional GPS inside
 - 169MHz (alternatively, optional, 868MHz) wM-Bus with SMA connector

INPUT/OUTPUT

- Inputs
 - 4 inputs S0
 - 2 inputs Dry Contact
 - 4 programmable ADC inputs
 - 3 inputs for RTD sensors (PT100 or PT1000 selectable via DIP-switch)
 - 2 inputs for K thermocouple
- Outputs
 - 2 Open Collector (max 80Vdc and 80 mA) optical insulation up to 3,75 kVrms

TEMPERATURE

- Operating: -40 ÷ 85°C (or 0 ÷ 50°C with battery operation)
- Humidity from 5% ÷ 55% non condensing
- Storage: -40 ÷ 85°C (o 0 ÷ 55°C with battery)
- Humidity: from 5% ÷ 90% non condensing

POWER

- Input: from 5,5 ÷ 24Vdc (@ 12Vdc - 3,8 A)
- Backup battery (optional): 3,7V 2000 mAh Li-Po (life: 6h @1GHz, 18h @350 MHz)

CYBER SECURITY

- Chip TPM (Trusted Platform Module 1.2) optional

CASE

- 9M DIN-RAIL and screws for wall mounting
- Material: ABS
- Size: 159mm x 90mm x 58mm (without antennas)
- Weight 0,5 kg