



IoT solution Presentation

Roberto Buti – r.but@melchioni.it

WHY ENGICAM

EMBEDDED
SOLUTIONS

Engicam is an Italian company, **founded in 2004**, headquartered in Florence, entirely debt-free and **wholly managed by the owners**.

Engicam's product range is based on the **latest technologies and platforms available on the market**.

Engicam is aimed on developing new products based on **emerging technology**, with a great potential for further international expansion.

IoT gateway

IOT READY
LINUX BASED
LOW COST



General purpose miniature carrier board based on MicroGEA modules. The MicroDev provides a wide variety of connectivity interface like 2/3/4G, NB-IoT, WiFi, BT, BLE, Ethernet, USB and serial ports.

SOM based :
iMX6ULL or STM32MP157
Full Linux open source

Main features

uGEA som compliant

7 to 40VDC wide range power supply

1 x uSD socket

1 x RS485 / CAN

1 x RS232 Linux consolle

1 x RS232

1 x USB 2.0

1 x ETH 10/100

WiFi, BT, BLE

2G/3G/4G, NBloT

Industrial temperature range

Tiny Size: 80 x 50 mm

Plastic box enclosure

CE & RED compliant

SERVICES & CONSULTANCY

ENGICAM DEVELOPMENT ENGINEERS CAN OFFER DIRECT CONSULTANCY SERVICES TO SUITS ALL THE CUSTOMERS BUSINESS NEEDS.

HARDWARE DESIGN

- Customer carrier board design: schematics and pcb.
- Customer carrier board prototype.
- Customer carrier board hardware debug.
- Customer product EMC precompliance test.
- Mechanical design: board and LCD integration, enclosure.

SOFTWARE DESIGN

- BSP porting on customer carrier board. Custom driver porting and development.
- Customer graphic interface software development. QT based application development.
- Multimedia application development based on gstreamer or mplayer.
- Web application based on PHP, LIGHTTPD or Apache. Network application development.

MANUFACTURING SERVICES

Custom carrier board production.

Plastic or metal enclosures manufacturing by selected and certified suppliers.

Assembly of finished electronic devices.

Direct packaging and shipping by Engicam.