



# CORPORATE PRESENTATION





# WHO WE ARE

Engicam is a rapidly growing technology company focusing on embedded computing products and services. Headquartered in Florence, Italy, the company is wholly **managed by the owners.**

We design, develop, and manufacture high-performance System on Modules and Computer on Modules, Carrier boards and HMI.

Our products are based on the latest generation of processors from **NXP**®, **Intel**®, **STM**®, **Rockchip**, **Renesas**, and **Texas Instruments**.





# OUR VALUES

## TRUST

We are trusted partners and advisors for our customers to achieve their business goals.

## COMMITMENT

For us, it means our own design, the local integration of end products, and full control of the supply chain, from the first idea to the final industrial serial product.

## TIME TO MARKET

Through close integration between the functions of R&D, design, production, and marketing, our agile mindset aims to shorten the release of a new product, from the prototypes to the market launch.







# CUSTOMER ORIENTED

We are constantly focused on technological innovation.

We consistently strive to give customers more than they expect in terms of performance and stability than services and assistance.

The well-known support offered during the product development stages makes Engicam modules the perfect solution for robust and technologically advanced products with low investment in terms of time and costs.

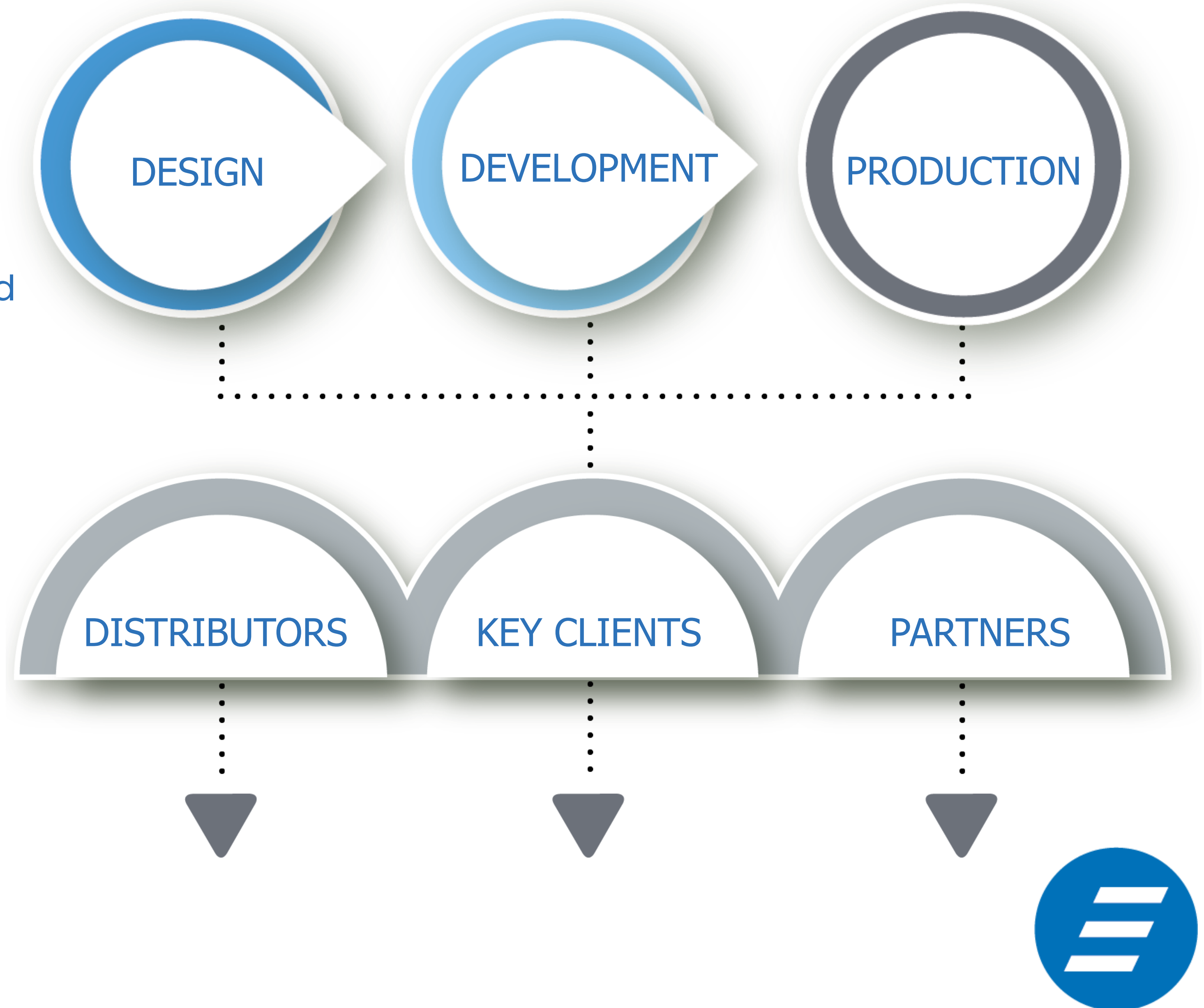


# R&D

The idea, electronic and mechanical projects, and the software are **developed entirely within the head office.**

All the **testing procedures** to ensure the proper functionality of the products in the most demanding operating conditions are performed internally.

We'll continue to innovate by leveraging R&D capabilities to introduce new leading-edge products and to attract **high-potential talents.**





# PRODUCTS





# A WIDE RANGE OF PRODUCTS



EDIMM

EDIMM 2.0

EDIMM CARRIER

MICROSOM

MICROSOM OPEN FRAME

MICROSOM CARRIER

STANDARD FORMAT

ULTRAGEA

EVALUATION BOARD

CAPACITIVE TOUCH FAMILY

LOW COST TOUCH FAMILY

PANEL PC

SBC







The modules and solutions developed by Engicam are used in a [wide range of applications](#), such as industrial automation, medical technology, transportation, and surveillance.

## TO MEET DIFFERENT MARKETS





# FOCUS ON

## HIGH-PERFORMANCE EMBEDDED COMPUTING PRODUCTS

### LONGEVITY

All modules have a guaranteed long-term production availability, up to **15 years** from CPU launch

### SMALLEST FORM FACTOR

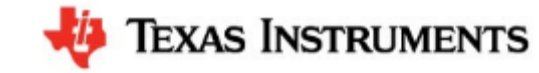
For easy integration, modules are designed and developed to minimize the form factor.

### SCALABILITY

The majority of Engicam modules are available in **SODIMM**, **MicroGEA** or **SMARC** formats mutually compatible for complete scalability.







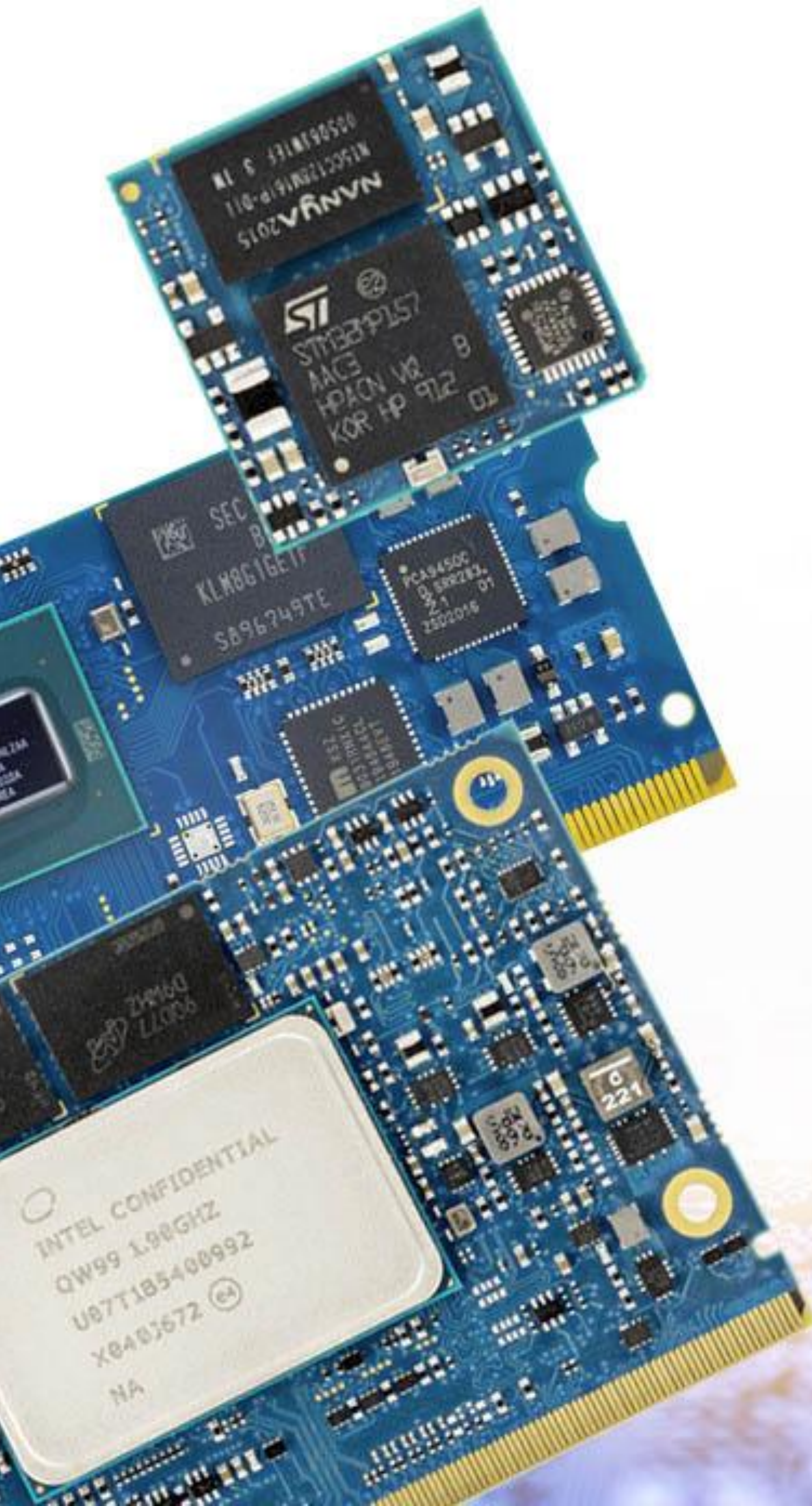
# SYSTEM ON MODULES SOLUTIONS

Our modules are designed to ease mechanical integration, taking care to minimize the form factor.

The extreme flexibility facilitates the development of a variety of products using the same carrier board, for great cost optimization.



As members of SGET consortium, we can offer standard modules based on Qseven and SMARC pinouts.

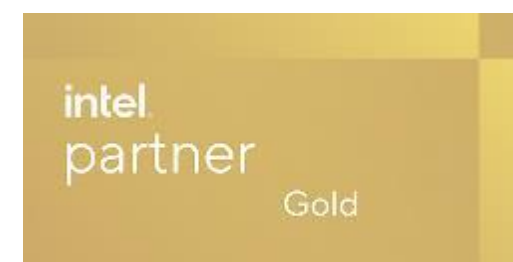




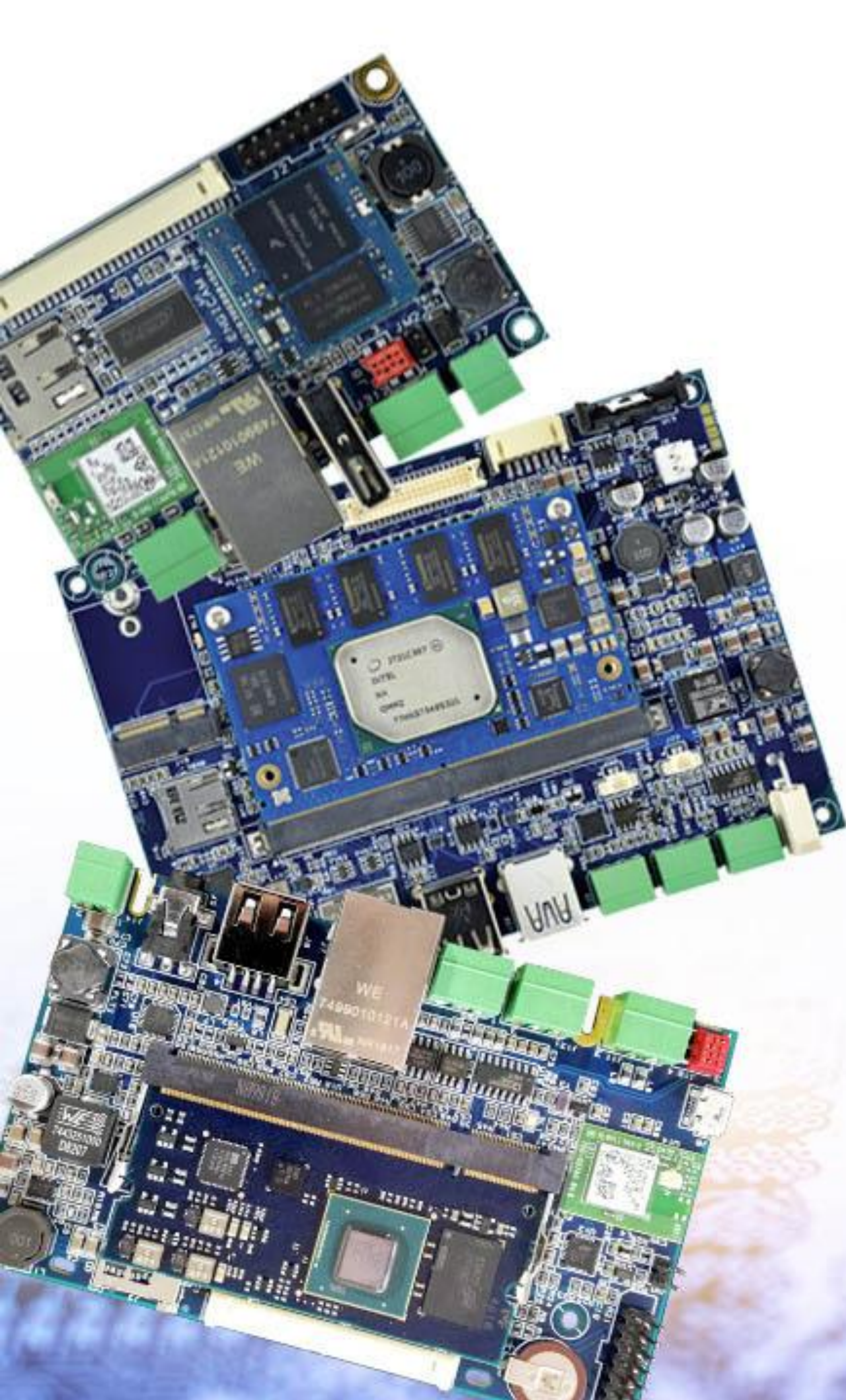
# COMPUTER ON MODULES

As members of **PICMG** consortium, we can offer standard modules based on **COM Express** pinout.

Computer on Modules solutions in standard form factors, Mini type 10 and Compact type 6.







# CARRIER BOARDS

Wide range of ready-to-use carrier boards for different industries and business needs, [from off-the-shelf products to totally customized solutions.](#)

Standard solutions aimed to minimize the investment cost and the time to market or to be used as a [reference design](#) for a complete level of customization.

Our engineering team is available to help customers to design and manufacture their specific carrier board.





# HMI

Our rear mount and front mount HMI solutions are based on a compatible connector for low-cost solutions as well as very high-performance applications.

- Different **LCDs qualification** (industrial or consumer)
- Different **touch technologies** (resistive or capacitive)
- Different **LCD sizes**





# PANEL PC

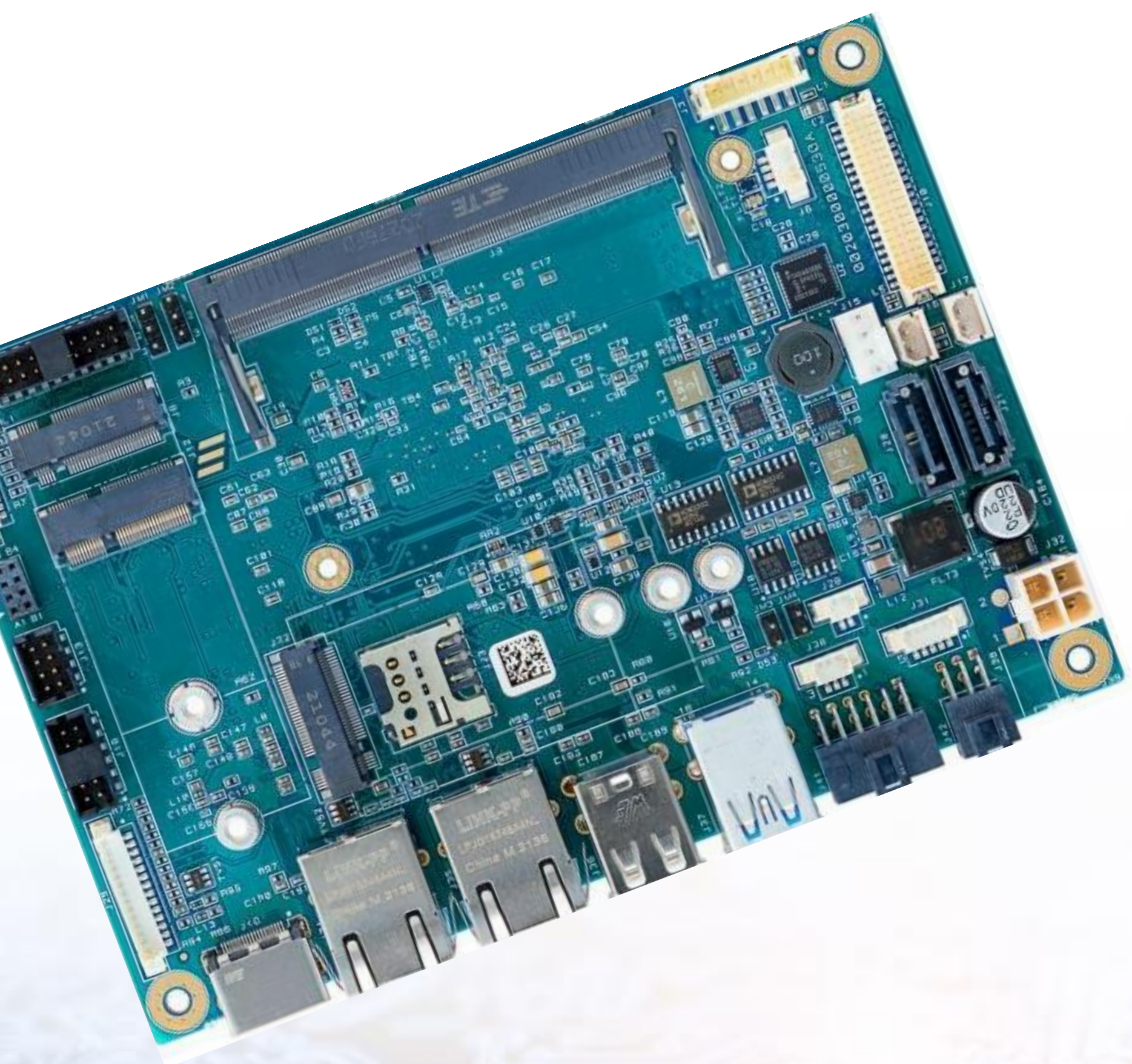
Based on standard SMARC modules, the Panel PC can be driven by the [powerful modules family x86](#).

The capacitive multi-touch panel supports both [Linux and Windows OS](#) for an user-friendly graphic user interface.

The Panel PC system is very easy to be integrated because of the [standard VESA](#) and the frames available in different colors.







# SINGLE BOARD COMPUTERS

3.5" Single Board Computers based on Intel Atom Apollo Lake and X6000E series processors for high-performance solutions.





# POE (POWER OVER ETHERNET)

New cost-effective, easy-to-use solutions to install remote or outside equipment **without AC power connection**.

Perfect for applications such as **VoIP phones, webcams, wireless access points**, security cameras, door entry systems, and security equipment.







ENKTRON is the result of a partnership between Engicam Srl and KED Srl.

# FPGA SOLUTIONS



FPGA and On-Chip Systems, developed using the latest technologies of the leading FPGA manufacturers such as [Xilinx Zynq SoC](#) and [Zynq UltrascaleMPSoC](#), synonyms of high performance and flexibility.

Integrated FPGA modules, evaluation boards, and optimized IP Cores for different applications, such as embedded processing, signal and image processing, and deep Learning algorithms.





# QUALITY SYSTEM

Engicam is fully certified by CISQ/IMQ-CSQ according to the standards [ISO 9001:2015](#) and [ISO 14001:2015](#) for the design and production of electronic systems.

We guarantee thorough and [precise oversight of quality processes](#), starting from the direct procurement of materials, through testing at every production stage, and continuing to packaging and shipping.

The entire product line is directly tested by Engicam with 100% oversight. The [PCBA process](#) includes automatic optical and X-ray inspection for the SMT production. Our Staff is IPC-A-610 certified.





# SERVICES





# SERVICES

## WE CAN COMPLETELY TAKE OVER FOR YOU

To facilitate product customization, our Engineering Team offers support during each phase of the development process.

## CUSTOMIZATION

Thanks to many years of experience in standard products customization and tailored solutions we provide hardware, software, and mechanical design for quick product development.





# LINUX

To facilitate customer product development, we provide comprehensive hardware and software kits developed by our Engineering Team.

## LINUX SDK

- Single file installation
- Ready to use
- Exhaustive and faster evaluation
- Complete open source solution
- Full environment, OS configuration





# ANDROID

## ANDROID SDK

All standard Android tools are available for faster evaluation and development.

## ANDROID STUDIO

It provides the quickest tools for building apps on Android devices. ADB TOOL is available on USB OTG and LAN for debugging.

## ANDROID BSP

Devices are available for easy integration in the Android development environment from NXP™. C.TOUCH 7" and C.TOUCH 10.1". Open Frames are available for quick evaluation or as ready-to-use solutions.





# BIOS

Available for [x86-based modules](#):

- Preliminary discussion to ensure full customization of BIOS according to client specifications.
- Release of BIOS updates on request.
- Phoenix-based BIOS with a menu for independent customization
- Fully open-source BIOS (Slim Bootloader).





# SUPPORT

Free of charge support directly by our development team for the main hardware and software issues.

## HARDWARE

- Clear and rich documentation
- Hardware manual for modules and starter kit, application note for hardware design
- Starter kit carrier board schematics
- Direct hardware support for modules and carrier board design
- Design review for customers' carrier boards schematics
- EMC pre-compliance for starter kit and open frame

## SOFTWARE

- Virtual machine with BSP ready to use for Linux based CPU modules
- Android BSP for selected modules
- Support for driver developments
- Support for standard package porting





# CONSULTANCY

Engicam's teams specializing in ARM software, X86 firmware, and hardware can provide direct consultancy services tailored to meet all customer business needs.

## HARDWARE DESIGN

- Customer carrier board design, schematics, and PCB.
- Customer carrier board prototype.
- Customer carrier board hardware debug.
- Customer product EMC pre-compliance test.

## SOFTWARE

- BSP porting on customer carrier
- Custom driver porting and development.
- Customer graphic interface software.
- QT-based applications.
- Multimedia applications based on GStreamer or MPlayer.
- Web applications based on PHP, LIGHTTPD or Apache.
- Network applications





# CONSULTANCY

We offer tailored and innovative mechanical design solutions and manufacturing services guiding projects from concept to production to meet industry standards.

## MECHANICAL DESIGN

- Custom HMI kit for multiple purpose and environment
- Plastic and metallic custom enclosures
- Thermal analysis and heatsink customization
- Product concept and rendering
- Fast prototypes

## MANUFACTURING SERVICES

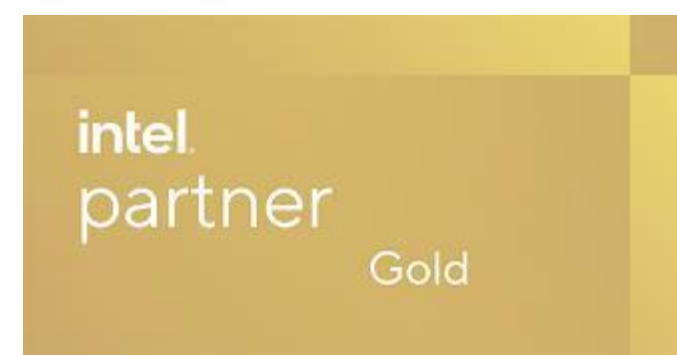
- Custom carrier board production.
- Plastic or metal enclosures manufacturing by selected and certified suppliers.
- Assembly of finished electronic devices
- Direct packaging and shipping





# OUR PARTNERS

## MANUFACTURERS



## NETWORK



## CONSORTIA







# CONTACT US

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