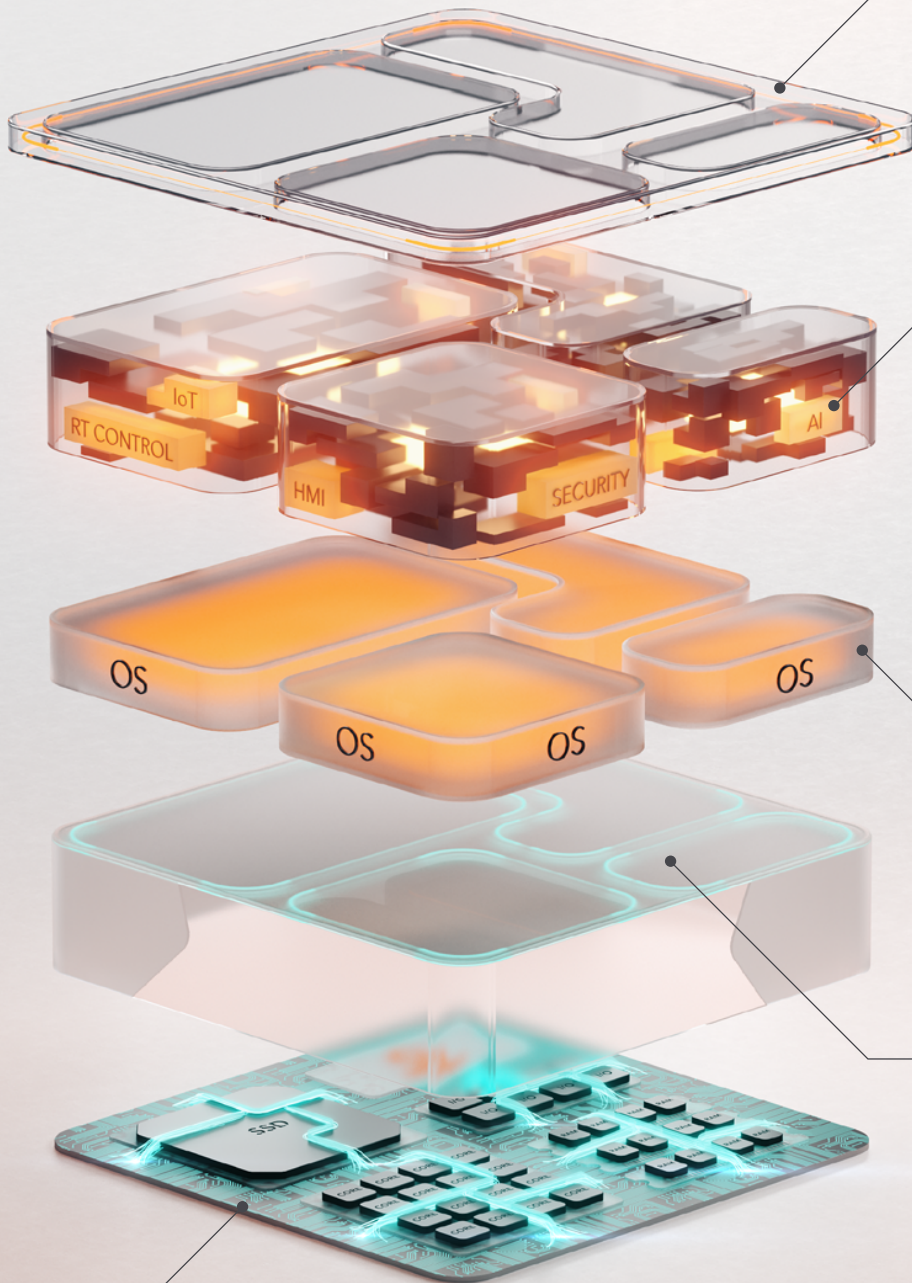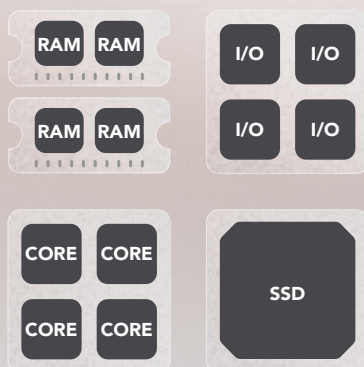# aReady.COM

Explore high-performance embedded building blocks that drive efficiency, performance, and adaptability from COM to Cloud – revolutionizing embedded computing designs.

Introducing: aReady.COM.
The application ready Computer-on-Modules by congatec.

Customer Application

Build your applications on aReady.COMs and become highly agile and responsive in a fast-paced technological landscape.

- Medical Technology
- Robotics
- Edge Computing
- Industrial Automation
- Test & Measurement Technology
- and many more

Software Layer

Pre-evaluated functional software building blocks significantly minimize design efforts and compatibility concerns for use cases including

- IoT
- RT CONTROL
- HMI
- SECURITY
- AI

- Artificial Intelligence
- Security
- and many more to come
- Internet of Things
- Human Machine Interface

OS Layer

Every aReady.COM is designed with a ready-to-use approach thanks to pre-installed, pre-configured and licensed operating systems fitted to your needs. Of course with latest patches to protect your system from potential threats.

Virtualization Layer

Hypervisor-on-Module, our innovative firmware feature, enables the consolidation of multiple applications on a single physical module to make full use of all resources.

Security
The Hypervisor-on-Module creates isolated environments for each virtual machine, acting as digital islands that help to separate your data and applications from each other.

Flexibility
Seamlessly integrate virtual machines to freely scale and adapt your system, meeting growing demands with a faster time to market.

Out-of-the-box
The Hypervisor-on-Module is pre-integrated in the firmware of our aReady.COMs and already configured as demanded.

Real-Time operation
Direct hardware access adds no latency, allowing your real-time applications to run with precision and rapid response times.
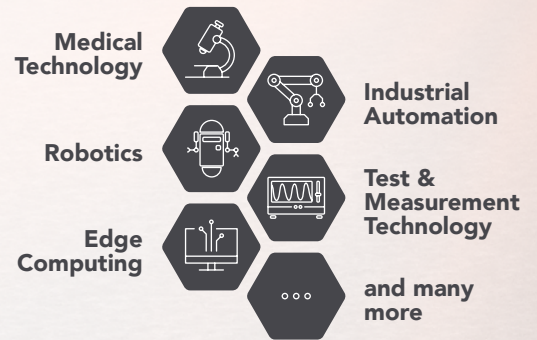
Hardware Layer

aReady.COM qualified congatec Computer-on-Modules come with soldered mass storage. Based on open standards they facilitate flexible integration, enable easy upgrades to extend product lifecycles and improve Return-on-Investment.

- RAM RAM
- RAM RAM
- I/O I/O
- I/O I/O
- CORE CORE
- CORE CORE
- SSD