

EMBEDDED SOFTWARE ENGINEERING SERVICES

Design | Deploy | Maintain

Trends

Embedded Software Market size valued at over USD 12 billion in 2018 is poised to grow at a CAGR of more than 6% from 2019 to 2025

Hugely driven by a surge in adoption of IoT enabled devices. Increased focus on building powerful, deterministic, and processing efficiencies even in smaller, low-power, and resource-constrained devices.

The middleware segment accounted for a large share of the embedded software market in 2019. Application-specific embedded systems that have low power consumption and offer high interoperability is fueling the growth of middleware used in embedded systems

Opportunities

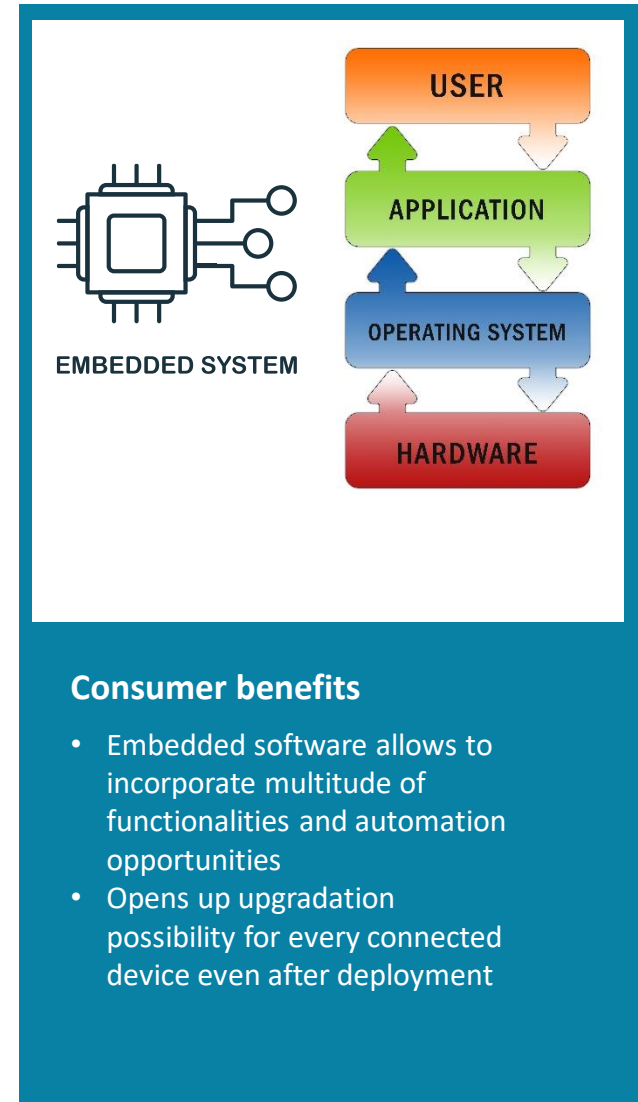
Demand for smart & connected devices is set to boost the market. Driven mainly by adopting technologies like IoT, AI, and machine learning .

RTOS is considered crucial in embedded technology, which acts as an engine that will run billions of devices on the IoT.

RTOS supporting multiple architecture and compiler tool chain will be in demand.

Application Areas:

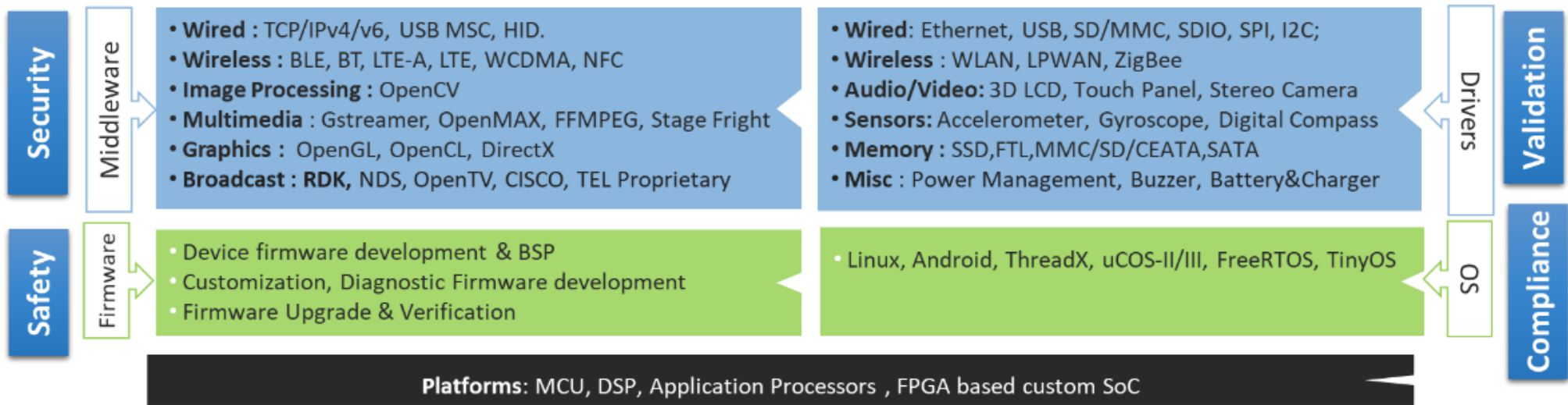
- IoT devices
- Industrial – manufacturing sector
- Automotive
- Consumer Electronics
- Retail
- Media and entertainment



Consumer benefits

- Embedded software allows to incorporate multitude of functionalities and automation opportunities
- Opens up upgradation possibility for every connected device even after deployment

EMBEDDED SOFTWARE SERVICES



Tools and frameworks

- Doors
- JAMA
- Rectify
- Polarion
- EA
- MATLAB
- Rhapsody
- MS Visio
- QAC
- Klockwork
- LDRA
- Polyspace
- Unity
- Tessy
- Cantata

Sample cases

SDK development for IOT

- Complete development and maintenance of SDK

Compliance: UL2900

- Design and develop the security software reference solution for medical domain

Robotics

- Robotic Cleaner software development
- Automated factory vehicle software

Semiconductor platforms



Differentiators

- Complete SDK ownership for an IoT series of products
- Device level security implementation
- Multi-core architecture expertise
- Open Source framework implementation
- Complete system development, integration & Validation capability