



# Processor Architectures

Arm® | QorIQ® | x86

## Embedded – Rugged Embedded Computing Platforms for Defence

TQ-Embedded provides high-reliability embedded modules and systems for mission-critical defence and aerospace applications. The portfolio spans multiple processor architectures ranging from low-power Arm® platforms to high-performance x86® and networking-focused QorIQ® Layerscape processors.

### HIGHLIGHTS

- ✓ Rugged industrial-grade embedded platforms
- ✓ Long lifecycle support – up to 20 years
- ✓ Extended temperature support (-40 °C to +85 °C)
- ✓ Starter kits and evaluation platforms
- ✓ BSP / Yocto Linux support
- ✓ Carrier-board and system design assistance
- ✓ High-speed networking and TSN-capable platforms
- ✓ Long-term availability for defence programs

### PRODUCT CATEGORIES

- ✓ System on Modules (SoMs)
- ✓ Starter Kits / Evaluation Platforms
- ✓ Single Board Computers (SBCs)
- ✓ Carrier Boards
- ✓ Embedded Box PCs

### SUPPORTED FORM FACTORS

- ✓ COM Express® Basic
- ✓ COM Express® Compact
- ✓ COM Express® Mini
- ✓ COM-HPC® Mini
- ✓ SMARC® 2.0 / 2.1
- ✓ OSM™



TQ-Systems as a hardware specialist for embedded systems is working in close partnership with all leading semiconductors and operating system vendors.



### Mission Computing & C4ISR

Rugged embedded computing platforms for mission computers, sensor fusion, radar processing, secure communication gateways, and C4ISR systems.



### Avionics & Communication Systems

Deterministic networking platforms for avionics communication, TSN-enabled gateways, payload controllers, and real-time aircraft networking.



### Real-Time Networking & TSN

TSN-capable embedded platforms based on NXP Layerscape and industrial Arm® architectures for deterministic Ethernet and secure real-time communication.



### Unmanned & Autonomous Systems

Compact embedded computing for UAVs, UGVs, autonomous ground systems, navigation controllers, and edge AI processing.



### Naval & Ground Platforms

Industrial and rugged embedded systems for vehicle communication, battlefield networking, surveillance systems, and harsh-environment deployments.

