embedded brains

RTEMS

RTEMS

Real Time Operating System

- Open Source
- Safety Qualified
- Multicore Performance
- Widely established

embedded brains

RTEMS

Why RTEMS




Open Source

- **No royalties**
- **Code transparency**
- **No dependency on supplier**

Safety Qualified

- **ECSS Space qualified (Cat. B)**
- **100% code and branch coverage**
- **Automated test suite**

Multicore Performance

- **Symmetrical Multiprocessing (SMP) option for 2 to 24 cores**
- **Small memory footprint (20 to 100 kB)**

Advanced Functions

- **> 200 BSPs for > 20 architecitures**
- **File systems, dyn.loading, POSIX API**
- **IPv4/v6, TCP/IP, USB etc**

Our RTEMS Services

Open Source Software

+ **free and liberal licencing**
- **requires expeirence and additional engineering**

Commercial Software

+ **good functionality**
- **expensive and user is dependent on supplier**

Our concept

On the basis of Open Source Software we provide commercially engineered turnkey packages, timely and with warranted quality.

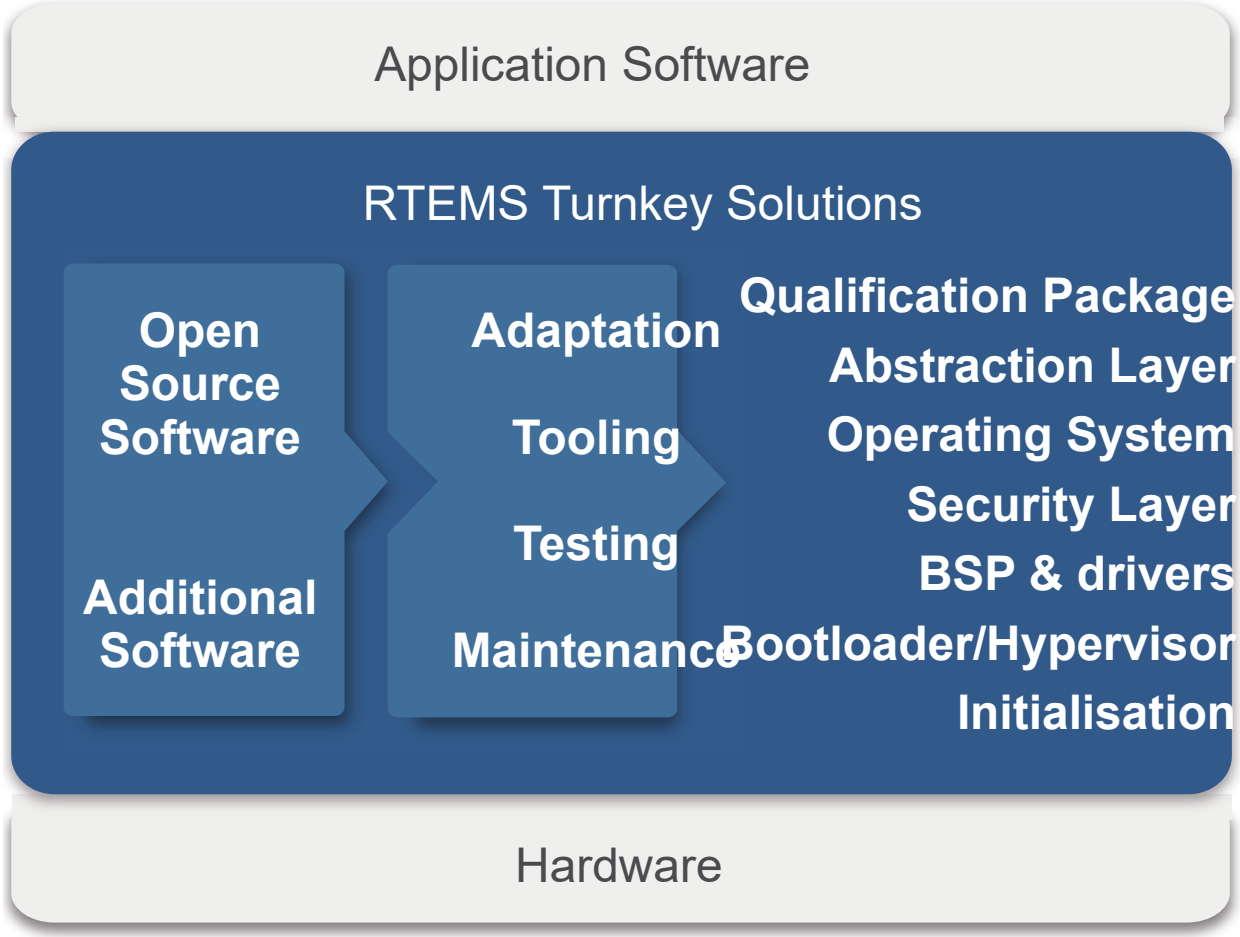
+ performance, reliability, and delivery of commercial software

Turnkey Solutions

RTEMS Turnkey Solutions fill the gap between hardware and application software.

We include all that is needed to obtain the required functions and performance.

So you may concentrate on your core competencies in hard- and software.



Our Products

Software Development Kits (SDK)

- **Tailored BSP running RTEMS on your target**
- **Development tools**
- **Documentation set**
- **Engineering support**
- **Maintenance subscription**

Qualification Data Packages (QDP)

- **ECSS Cat C or Cat B**
- **For single-core and/or multi-core (SMP)**
- **Incl specific drivers and interfaces**

Maintenance Subscription

fentISS	**XtratuM / XNG Hypervisor**
Gaisler	**GR 712RC** **GR 716A and GR716 B** **GR 740** **GR 765** **NoelV** **UT699/UT699E/UT700**
Microchip	**PolarFire SoC** **SAMRH707** **SAMRH71** **SAMV71Q21RT** **SAM V, SAM E & SAM S MCUs**
NanoXplore	**NG-Ultra**
Teledyne	**LS 1046-Space** **Products based on NXP Layerscape, QorIQ P-Series and QorIQ T-Series**
Texas Instruments	**TMS 570LC4357, TMS 570LS3137**
Vorago	**VA 10820** **VA 41600, VA 41620, VA 41628,** **VA 41629, VA 41630**
Xilinx	**Zynq 7000 Series** **Zynq Ultrascale+ MPSoC and/or RFSoC** **Versal Adaptive SoC**

Why contracting embedded brains?

We deliver at a set time and at set cost

We are cost effective due to our competence and shared effort

We keep up to date with RTEMS developments and tooling

Using Open-Source Software, all that is needed can be done by oneself.

However, we believe it makes sense to let us do the job.