

Partners



Distributors

- BMR, China
- Fenway Embedded Systems, Italy
- Hitex GmbH, Germany
- Hitex UK Ltd, UK
- INNOSJ Inc, Korea
- JP Embedded, Poland
- Meteoric Innovation Ltd, India
- Microtime Computer Inc, Taiwan
- Neomore, France
- Pertech Embedded Solutions, Israel
- PiTask, Turkey
- Ubiquitous AI Corporation, Japan

Technology Partners

- Adesto
- Analog Devices
- IAR Systems
- Infineon
- Microchip
- Microsoft
- Renesas
- ST Microelectronics
- Texas Instruments

Memberships

- WiSUN
- Open Alliance

Product summary



FILE SYSTEMS

- FAT
- SafeFAT
- exFAT
- SafeexFAT
- Smart meter
- SafeFLASH
- TINY

FLASH MANAGEMENT

- SafeFTL
- SSD-SafeFTL
- NAND Drivers
- NOR Drivers

NETWORKING

- IPv4 and IPv6
- MQTT
- SNMP
- HTTP
- FTP/TFTP
- SNTP/NTP
- IGMP/MLD

NETWORK SECURITY

- TLS/DTLS
- IPSec/IKE
- SSH
- EAP

ENCRYPTION

- CryptoCore
- Hardware Algorithms
- Software Algorithms

USB

- EHCI/OHCI
- HID
- CDC-ACM
- MST
- MTP
- RNDIS
- CDC-ECM
- CDC-EEM
- CDC-NCM
- Audio
- Midi
- Printer

BOOTLOADERS



- SEooC
- Integration TestBench
- SafeTCPIP

HCC Embedded

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Váci út 76. Hungary

HCC Embedded UK

The Business Centre, Edward Street
Redditch, Worcestershire B97 6HA, UK

HCC Embedded India

91 SpringBoard,
George Thangaiyah Complex 21,
80 feet Road,
Indiranagar, Bengaluru,
Karnataka 560 038

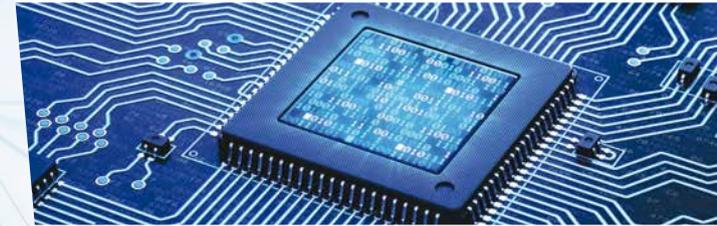
HCC Embedded USA

1999 S. Bascom Avenue Suite 700
Campbell, California 95008

www.hcc-embedded.com



HCC Embedded



HCC Embedded, founded in 2002, believes that core software components for deeply embedded systems, should be engineered for safety, quality and portability such that they can be core elements of any system.

HCC has built its organization on quality (ISO 9001:2015 and ISO 27001 certified) to deliver quality solutions. HCC's portfolio includes an extensive range of embedded components with core competence in file systems, communications and security.

With the introduction of HCC's safety product portfolio, HCC is using its focus on developing reusable safety components, SEooCs (Safety Elements out of Context), to raise the standard of available embedded software elements even higher.

The embedded world is changing rapidly in terms of the complexity of development environments and the complexity of the required solutions. HCC continues to evolve with this change and provides embedded and safety solutions for companies across all industries and locations, so they can meet these challenges.



Automotive



Aerospace



Industrial



Medical



EMBEDDING EXCELLENCE

HCC Embedded develops deeply embedded software components “out of context”, which ensures that they can be used as core elements of any system, including those engineered to meet stringent requirements for safety, quality and portability. Built on a foundation of quality, HCC has a product portfolio of more than 250 embedded components, with deep competencies in reliable flash management, fail-safe file systems and IPv4/6 networking stacks with associated security protocols, as well as a comprehensive suite of USB host and function software. Since 2002, HCC has supplied these embedded software components to more than 2,000 companies globally in a wide range of industries including aerospace, medical and automotive.

HCC has developed a wide range of reusable software components for use in deeply embedded systems. To do this in a scalable way with consistent quality across these components, HCC has created its Advanced Embedded Framework (AEF), the standard to which all components are engineered. HCC’s framework ensures that each component is independent of any particular architecture, RTOS or toolchain; and also prescribes levels of quality to the code, and their interfaces, to ensure that there is a consistent “look and feel” across the product range.

18+ years
250+ embedded components
2,000+ customer projects
ISO 9001 & ISO 27001 certified



ISO 9001: 2015 CERTIFIED
HU-MSZT-9001/1907-1208



ISO 27001: 2013 CERTIFIED
HU-MSZT-ISM/042-39



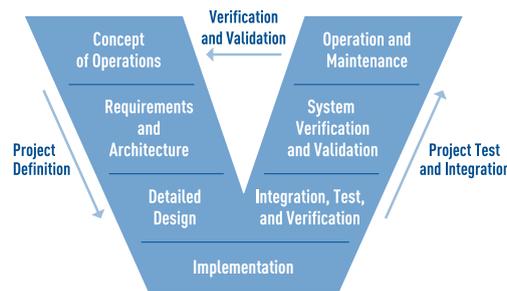
SAFETY ELEMENTS (OUT OF CONTEXT)

ISO 26262-10 defines a SEooC as a method for using components in a vehicle where the components were not originally designed for that specific project. This methodology can be applied to both hardware and software elements. HCC is setting a new level for development by using the SEooC approach to build software Safety Elements.

HCC creates each SEooC with a full V-Model process following ISO 26262-6, which can be mapped to other safety processes such as ISO 61508, IEC 62304, and DO-178C. Each SEooC is supported by full software lifecycle processes, such that they can be integrated with the OEM’s safety development process. The development process includes full traceability between DOORS-based requirements and test cases, as well as traceability between the requirements, design, and implementation.

Each SEooC is supported by HCC’s Integration TestBench (ITB) that enables the same tests executed in the development of the SEooC to be replicated exactly when integrated to the end-users’ target system.

SafeTCPIP, developed to ASIL/B, is HCC’s first SEooC product.



CLASSIC V-MODEL

Consulting & Services

FOR THE COMPLETE EMBEDDED DEVELOPMENT LIFECYCLE

HCC’s embedded engineering team has expertise in many areas of deeply embedded systems development. With in-depth knowledge in file systems, flash management, networking and communications protocols, HCC’s development services team has built over 2,000 customer projects for a wide range of target environments across all industries.

Our 18 years of developing embedded software to high standards, independent of particular RTOS or tool-chain architecture, enable our engineering team to add focus and quality to specific challenges during product development.

HCC works with all elements of the product development lifecycle; from product specification, through design and implementation, to test and maintenance. Depending on the nature of the target project, HCC either applies standard development processes or deploys the SEooC-based full safety software development lifecycle with complete traceability between requirements, implementation, and test cases.

