

Partners



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Company profile

- 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, failsafe file systems, 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 industrial, medical and automotive.

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



ISO 9001:2015 CERTIFIED
HU-MSZT-003/1367-1286



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

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1133 Budapest
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HCC Embedded India
Motiati Meadows, No.84-1-B,
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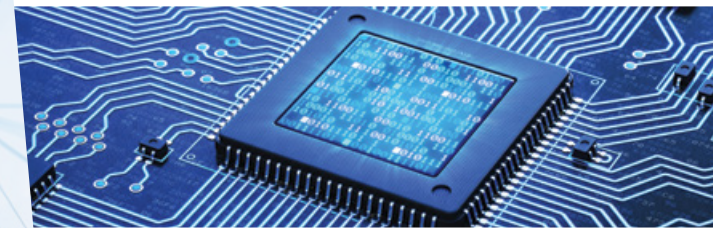
HCC Embedded USA
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Campbell, California 95008



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 SEoCs, (Safety Elements out of Context), HCC is using its focus on developing reusable safety components 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 solutions to help companies, across all industries and locations, meet these challenges.



Automotive



Aerospace



Industrial



Medical

HCC Products list

FILE SYSTEMS

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

FLASH MANAGEMENT

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

NETWORKING SEooC

- SafeTCPIP

NETWORKING

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

NETWORK SECURITY

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

USB

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

ENCRYPTION

- CryptoCore
- Hardware Algorithms
- Software Algorithms

BOOTLOADERS

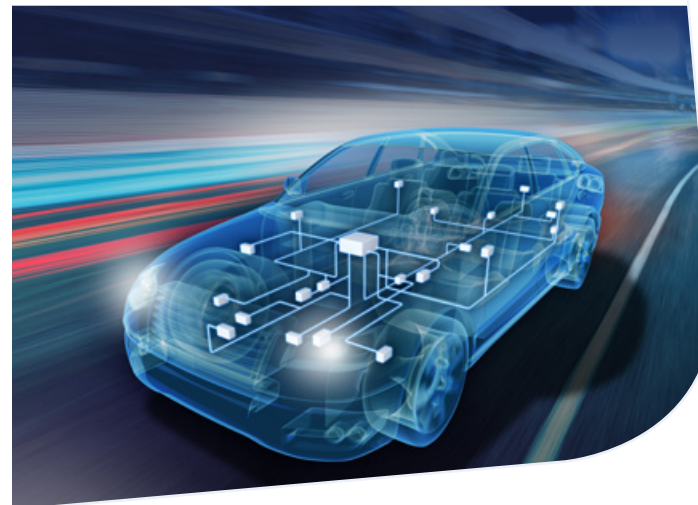
Safety Elements (out of Context)

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 62303, 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.

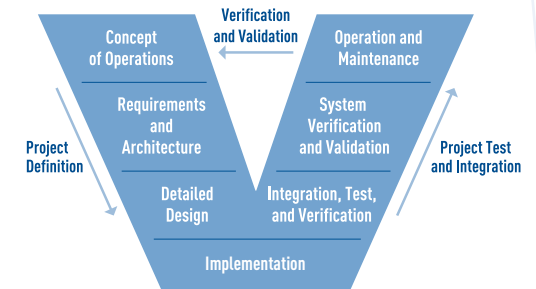
Each SEooC is supported by HCC's Integration Test bench (ITB) that enables the same tests executed in the development of the SEooC to be replicated exactly when integrated to the end-users' target system.

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



Advanced Embedded Framework

HCC has developed more than 250 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 from 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.



CLASSIC V-MODEL

HCC Embedded products are used, without modification, in thousands of customer projects with over 30 different RTOSes, in 8-, 16-, 32- and 64-bit systems, big or little endian, with many architectures and toolchains.

Integrated Projects

Over the past 17 years, HCC has built more than 2,000 projects where HCC engineers have integrated HCC embedded components with its customers' designs. The advantage of this approach is that HCC experts do the software implementation on the customer-agreed target system, and thus, HCC provides its customers with a common platform for development and support. Customers are buying more than just software; they are engaging in a long-term engineering partnership.