
Infineon Preferred Design House

Distribution Communications Package

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Introduction to RDM Group Ltd



- Strong pedigree for supplying bespoke systems / components and engineering design services for automotive and industrial customers
- Celebrating 20 years of operation of RDM Group this year (2014)
- Tier 1 automotive electronic system, wire harness and mechanical solution supplier to major OEMs in UK and mainland Europe
- UK based Advanced Engineering Centre in Binley, Coventry
- Capabilities in embedded systems, hardware design (schematics capture, PCB layout, board bring up), firmware, embedded software, diagnostics, EMC / RFI / 'E-marking' certification, outsourced manufacturing, Quality control, inventory control and JIT
- Accredited ISO/TS 16949 (Automotive Quality / Process)
- Accredited ISO 26262 (Functional Safety) Engineering staff

Experience and Capabilities

- Automotive ECU development. Bespoke designs for body chassis and powertrain systems, from the ground up
- Advanced powertrain controls for Electric Vehicles and Hybrid Electric Vehicles
- Control systems and electronics for Hydrogen powered fuel cell vehicles
- Ethernet, WiFi and Bluetooth enabled ECUs for App connectivity and cloud computing
- Safety management ECUs for EVs and HEVs, including safety case analysis and ISO26262 functional safety engineering process, work products and organisation
- Experts in Infineon Microcontrollers, Power Devices, Transceivers, ASSP, and their usage in automotive and industrial applications
- Experts in Microcontroller design methodology, tooling, testing, debugging, calibration, modelling, bus systems (LIN / CAN / Flexray /Ethernet / CANfd)
- iOS App development (registered Apple Development partner and Mfi member) for connected vehicle and cloud computing on iPhone and iPad
- Android App development for off board tuning and calibration systems

Standard Support Package



1st level customer support to ensure that customers successfully develop their application with Infineon products and solutions

- Technical interface and support to the customer
- Support the design phase of the project at the customer
 - Hardware
 - Software
 - Product support
- Trainings at customers for design teams on Infineon products and solutions
- 24hrs response time to the customer
- One stop shopping for Infineon technical support

Premium Packages

Bespoke Product Engineering Services

Turn key solutions for new product developments

- Project planning
- Schedule / Cost estimating
- Quality targets
- Architecture and system specification
- System design
- Prototyping
- Manufacturing
- End of line testing
- Certification / Customer approval (electrical / mechanical testing)
- Warranty / field return investigations

Premium Packages

Software Engineering Services

Turn key solutions for new or updated Products

- Project planning
- Schedule / Cost estimating
- Software process implementation / environment set-up
- Software Architecture / functional specification / resource allocation
- Modelling / System design / auto-coding
- Operating System / scheduling / worst case timing analysis / instrumentation
- Multicore aspects and real-time considerations
- Automated testing / verification and validation testing / report generation
- Board bring-up / bug tracking / software auditing
- Defensive programming / MISRA / Functional safety

Premium Packages Re-Engineering Services

Re-Engineering of Previous Generation of Embedded System to:

- Change system to a newer / cheaper / faster / larger processing platform
- Remove obsolete or difficult to source components
- Reverse engineer systems where specification is not available / accurate
- Integrate several disparate functions on a multicore processor
- Include IP from other vendors or protect own IP from other vendors
- Commonise hardware or software platform between several different product lines to increase purchasing power and reduce NRE / maintenance / variance / warranty
- Leverage rapid prototyping tooling and autocode generation to decrease time to market and increase software quality

Premium Packages Training Services

Short Courses or bespoke training on all aspects of Embedded systems

- Infineon Microcontrollers (TriCore™ / AUDO™ / AURIX™ / ARM™)
- Hardware engineering (component selection / circuit analysis / specific applications / custom silicon devices / PCB design / ESD / EMC / RFI)
- Software engineering (engineering process / change management / software quality / tooling / code optimisation / defensive programming / testing methodologies / embedded code / operating systems / multicore processors / software safety / MISRA / low level drivers / OSEK / Autosar / debugging techniques / timing analysis / resource allocation / makefiles / bootloaders)
- Functional safety
 - ISO26262 Automotive
 - IEC61508 Industrial and automation

Supported Regions

RDM Group is UK based so can provide:

- Direct on-site and Remote support (phone and email) for UK customers
- Remote support (phone and email) for other EU countries outside of UK

Further information available at:

www.rdmgroup.co.uk/infineon.html

Contact:



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