

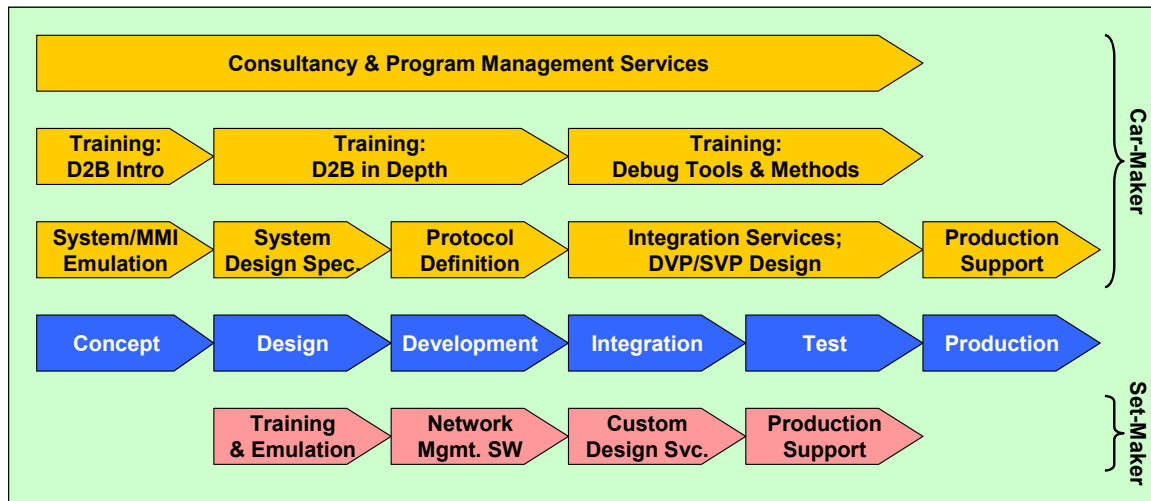
Product Datasheet 3.0.2



The leading automotive infotainment
networking solutions supplier

Consultancy & Development Services

C & C Electronics offers a wide range of consultancy, design and development services to assist vehicle manufacturers and their suppliers in the implementation of D2B networking technology. Applying our knowledge of many existing D2B products and system configurations to remove risk from your program and ensure that your project is successful and delivered on time.



Concept/Design Phase

- Basic Training
- Architectural Design
- System Simulation
- Design Specifications
- Protocol Definition
- Program Management

To ensure the successful development of a D2B system, we recommend that staff from all departments involved in the D2B program be given basic training in the application of D2B and multiplexing techniques so that a common understanding is shared from the beginning.

Our highly experienced consultants can provide on-site training to groups of people and can tailor the content to your specific circumstances or requirements.

Once your D2B program has started, we can supply an on-site consultant, either full-time or part-time as required, to assist

in the design and specification of an optimum solution, whether for a single product, a full vehicle, or for a cross-car platform.

Our experience and use of simulation tools ensures that user requirements are efficiently converted into a system definition, with consideration of network topology, bandwidth, platform variances, gateways, man-machine interfaces, feature management, timing strategies, power strategies, diagnostics and messaging protocol development.

Development/Integration Phase

- Advanced Training
- Emulator Development
- Protocol (Message) Development
- Full Application Development
- Network Management Integration
- Gateway development (e.g. CAN)
- Systems Integration Support

Whilst it is beneficial for your own staff to develop some D2B skills and experience,

C&C acknowledges that multimedia networking is a specialist area that many customers feel is outside their core competence and sphere of added value.

For this reason, C&C offers access to its highly experienced and totally specialist development team in the form of outsource development services, leaving your own team to concentrate on the design of the hardware and the application itself.

Emulators can help from an early stage in the development cycle by providing a platform to prototype and demonstrate man-machine interfaces, to test and debug prototype devices and message sets, and to evaluate timing considerations. C&C Electronics offer a range of standard device emulators, including both master and slave devices, and can customise these or develop new emulators as required.

Our experience in implementing D2B on many devices can also be used to help suppliers achieve a compliant interface to the network. C&C Electronics have a standardised network management protocol stack implementation, supplied as a Network Management Object, for embedding into the micro-controller of a Device on the D2B network. We provide a rapid integration service to port this code to your target hardware and the

operating system employed on your device.

Development services can be provided on a fixed-price basis where the scope of the project is well defined, or on a time-and-materials basis where resources are required to work in parallel with your own staff on a variety of tasks.

All staff are degree-qualified and collectively boast an impressive 50 man/years of automotive networking experience gained on 15 successful D2B customer projects. Development expertise includes hardware design, embedded software, protocol stacks and end-user applications. Our team has hands-on experience of all major automotive micro-controllers, operating systems, development and test tools.

Test/Production Phase

- Device and Systems Validation
- Diagnostic Services
- Support Services

In addition to the above consultancy and development services, we offer device and systems validation as an outsource service and are able to supply support services tailored to your specific requirements, to cover ad-hoc needs in areas such as post-production diagnosis and fault analysis, for example.

Order information:

For further information on the D2B Training Courses or any other C&C Electronics products, please visit our Web site or contact our office.

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