

DPA-On-a-Chip[®]

by Dearborn Group, Inc.

**Dearborn Protocol Adapter Module
Heavy Duty Vehicle**
J1939, J1708/J1587, CAN, GM Class 2 and more...

Key Benefits

- ✓ Design the DPA4 series into your own project !
- ✓ Dearborn Group provides: DPA design, technical documentation.
Design assistance and support
or complete Turn-Key solution.
USA maintenance and support.
- ✓ You provide: Real estate on your board.
Your engineering expertise.
- ✓ Uses standard NXP LPC2292 ARM7 microcontroller. 2 CAN ports.
- ✓ Useful for development, end-of-line testing, system diagnostics,
Data Acquisition and Hardware-in-the-Loop simulation.
- ✓ RP1210A and RP1210B compliant.
- ✓ Supports J1939, J1708/J1587, CAN (ISO 11898), GM Class 2.
- ✓ Supports Cummins, Detroit Diesel, Wabco/Meritor, Caterpillar,
Mack, Allison, Eaton, Navistar and many more...
- ✓ Developed in the USA. Supported everywhere.



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Introduction

The industry standard DPA adapters for the heavy duty industry can now be incorporated directly into your product.

Dearborn Group extends the DPA family to include licensing the intellectual property plus on-going maintenance for inclusion into your proprietary hardware. Dearborn Group takes care of all support and regular maintenance issues with the various RP1210 compliant diagnostic packages. DG is on many SAE and other committees that provides the “inside” knowledge.

This makes your project turn-key for RP1210A/B support and other proprietary protocols. Dearborn Group is the recognized leader and pioneer is providing protocol adapter to the heavy duty, automotive and industrial markets.

The DPA firmware is contained in the NXP FLASH memory and is field-upgradeable. DG supplies all the technical information required to successfully and easily interface your design to it.

Typical targets include engine, transmission, HVAC, body plus any other systems that are not automotive. DPAs are useful anywhere a protocol they support is used including industrial automation, medical, CANopen, DeviceNET or any other general application, especially using CAN. For more information concerning the DPA, ask for the DPA Series datasheet.

DPA-On-a-Chip

The DPA series is designed for private branding with the addition of proprietary protocols, hardware, features and logos. Many firms have chosen this route to provide their own branded diagnostic hardware. This provides a validated platform that can also be conveniently used on other manufacturers’s subsystems and DG maintains compatibility.

Development:

The DPA-On-a-Chip firmware is delivered programmed in a NXP LPC2292 family chip using the appropriate package. DG supplies schematics, software and assistance for the peripheral driver chips for protocols that are to be supported. DG can also completely design your project to your specifications.

Software Options:

The DPA-On-a-Chip can be accessed via RP1210A protocol allowing use with many OEM diagnostic packages. DG sells the DLM software useful for reading, writing and saving data to and from the various supported busses.

You can bypass RP1210A or B and write your Windows diagnostic software to directly access the target though the DPA-On-a-Chip using supplied API drivers.

Custom applications can be developed using a DPA to read and write to a vehicle or network system using programs such as C, Visual Basic, Visual C and LabView. The DPA accepts ASCII commands from non-Windows devices such as PDAs, PLCs, data acquisition or other proprietary hardware.

Wireless Options:

DG has expertise with IEEE 802.11 WiFi, Zigbee and BlueTooth wireless technologies and can assist in implementing these into your project. Any protocol, wired or wireless, that uses modules or ICs that can be attached to the LPC2292 can be implemented with DPA-On-a-Chip. DPA-On-a-Chip is quite flexible to adapt to your needs.

More Information ?

Please call the Dearborn Group office listed below or email sales@dgtech.com. We are able to discuss the options designed to accommodate your needs including pricing schedules.

Dearborn Group, Inc.

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