GRYPHON® Product Line – Tools and Modules

DG Gryphon Tools

Gryphon S3 Tool

Gryphon G2 Tool

Standard Gryphon Tool

The GRYPHON hardware family of products has flexibility that allows users to configure their hardware to work with a variety of network protocols (all supported by a family of available plug-in modules): CAN, J1850 (Class 2, SCP, Chrysler), J1708, Honda UART, LIN, UBP, KWP2000, and CGI. Additionally, our I/O module provides analog and digital inputs and digital outputs, and a programmable voltage output is also present.

The GRYPHON hardware family of products interfaces to vehicle communication networks and serves as a gateway between those networks, LANs and point-to-point TCP/IP networks (wired or wireless Ethernet) to provide high-speed, multiple user interfaces.

Users can write their own applications using the provided client communication protocol specification or use one of Dearborn Group's software packages, such as the Hercules high-end analyzer.

CAN Protocol Modules

QUAD CAN card
Type Q

Part number:
DG-GRYPH-MOD-Q

Channels: One J2411 (SWCAN, GMW3089 version 2.2) channel. Three ISO 11898-2 CAN channels (PhilipsTJA1050 transceivers), Philips SJA1000 CAN controllers, opto-isolated.

Special Features: Software switchable termination resistor on each of the three ISO 11898-2 channels.

QUAD CAN card
Type R

Part number:
DG-GRYPH-MOD-R

Channels: Four ISO 11898-2 CAN channels (Philips TJA1050 transceivers), Philips SJA1000 CAN controllers, opto-isolated.

Special Features: Software switchable termination resistor on each of the four channels.

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CAN Protocol Modules (continued)

ISO 11898 CAN card (SJA1000)

Part number:
DG-GRYPH-MOD-J

Channels: Two ISO 11898-2 CAN channels (Philips TJA 1050 transceivers), Philips SJA1000 CAN controllers, opto-isolated.

Special Features: Software switchable termination resistor, remote frame support, listen only mode, self-test mode, error level reporting, one digital input trigger, one digital output.

Single-wire CAN card (SJA1000sw)

Part number:
DG-GRYPH-MOD-W

Channels: Two J2411 (SWCAN, GMW3089 version 2.2) channels (Melexis TH8056 transceivers), Philips SJA1000 CAN controllers, opto-isolated.

Special Features: Remote frame support, listen only mode, self-test mode, and error level reporting.

Fault Tolerant CAN card (SJA1000ft)

Part number:
DG-GRYPH-MOD-A

Channels: Two fault tolerant CAN channels (Philips TJA1054 transceivers), Philips SJA1000 CAN controllers.

Special Features: Remote frame support, listen only mode, self-test mode, error level reporting, one digital input trigger, one digital output.

Other Standard Modules

LIN card

Part number:
DG-GRYPH-MOD-L

Channels: One LIN channel (Motorola MC33399 transceiver).

Special Features: Supports LIN 2.0 specification, master and slave functionality.

Dual LIN card

Part number:
DG-GRYPH-MOD-DL

Channels: Two LIN Channels (Motorola MC33399 transceiver).

Special Features: Supports LIN 2.0 specification, master and slave functionality.

J1708 card

Part number:
DG-GRYPH-MOD-01

Channels: Two J1708 Channels

Special Features: Supports J1587 and J1922 Messaging.

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Other Standard Modules (continued)

GM J1850 (DLC) card

Part number:
DG-GRYPH-MOD-G

Channels: Two J1850 VPWM channels (Motorola 68HC58 DLC).

Special Features: Supports 4X (high-speed) mode.

Ford J1850 (SCP) card

Part number:
DG-GRYPH-MOD-F

Channels: One J1850 PWM channel (Motorola HBCC).

Special Features: Supports multiple speeds, supports IFR types 1, 2 (Broadcast / Function Query) and 3 (Function Read).

Chrysler (J1850, SCI) card

Part number:
DG-GRYPH-MOD-C

Channels: One J1850 VPWM channel (Motorola 68HC58 DLC), one SCI channel.

Special Features: Supports IFRs.

KWP2000 card

Part number:
DG-GRYPH-MOD-K

Channels: One ISO 9141 / KWP 2000 channel, using a Siliconix SI9241AEY transceiver.

Special Features: ECU and tester functionality.

I/O Card

Part number:
DG-GRYPH-MOD-I/O

Channels: ► **Two digital inputs** ► **Four digital outputs**

- Open collector
- Software selectable pull up (none, 5 VDC, VBAT)
- 200 mA max. current per pin

Special Features: One digital input channel can be configured for frequency capture with an accuracy of 0.5%.

Special Order Modules

Ford UBP card

Part number:
DG-GRYPH-MOD-U

Channels: One Ford UART-based (UBP) channel.
(Motorola SC74935DH UBP transceiver)

Special Features: Internal jumper for termination.

Honda UART card

Part number:
DG-GRYPH-MOD-H

Channels: One Honda UART channel.

Special Features: None

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