

## GRYPHON<sup>®</sup> 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 with a variety of network modules: CAN, J1850 (Class 2, SCP, Chrysler), Honda UART, LIN, UBP, KWP2000, and an I/O module.

The **GRYPHON** hardware family of products interfaces to multiplexed automation and automotive communication networks via an Ethernet connection to provide a high-speed user interface.

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.

## 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.



### 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).

### Other Standard Modules (continued)



#### 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-IO

**Channels:**

- Two digital input channels
- Four digital output channels
  - 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



#### ISO – 11992 card

**Part number:**  
DG-GRYPH-MOD-I

**Channels:** One ISO 11992 CAN channel – namely, Atmel / Temic B10011SAM; one ISO 11898-2 CAN channel – Philips TJA 1050; Intel 82527 CAN controllers.

**Special Features:** None



#### Ford UBP card

**Part number:**  
DG-GRYPH-MOD-U

**Channels:** One ISO 11992 CAN channel – namely Atmel / Temic B10011SAM; one ISO 11898-2 CAN channel – Philips TJA 1050; Intel 82527 CAN controllers.

**Special Features:** None



#### Honda UART card

**Part number:**  
DG-GRYPH-MOD-H

**Channels:** One Honda UART channel.

**Special Features:** None