# GRYPHON® Product Line – Tools and Modules

**Gryphon S4 Tool**



**Gryphon G2 Tool**

The GRYPHON hardware family of products has flexibility that allows users to configure their hardware to work with a variety of vehicle network protocols, all supported by a family of available plug-in modules: CAN, J1850 (Class 2, SCP), LIN, UBP and KWP2000. 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 DG's software packages, such as our Hercules high-end analyzer software.

## 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.

### 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.

**DG Technologies**
33604 West Eight Mile Road
Farmington Hills, MI 48335

www.dgtech.com
248.888.2000 main
248.888.9977 fax

*Page 2 of 3*

### LIN card

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

**Channels:** One LIN channel, using leading-edge quality Motorola transceivers.

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

### Dual LIN card

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

**Channels:** Two LIN Channels, using leading-edge quality Motorola transceivers.

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

### 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.

### 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).

### 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%.

**DG Technologies**
33604 West Eight Mile Road
Farmington Hills, MI 48335

www.dgtech.com
248.888.2000 main
248.888.9977  fax

*Page 3 of 3*