

# GRYPHON / S-CAT Modules

Network Adapter and I/O Options

**GRYPHON** and **S-CAT** belong to a hardware family that 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 DG's software packages, such as the Hercules high-end analyzer or the Falcon flight recorder.

For flexibility, users can configure their hardware with a variety of network modules - CAN, J1850 (Class 2, SCP, Chrysler), Honda UART, LIN, UBP, and KWP2000. DGs also supports one I/O module to round out its offering.



## CAN Protocol Modules



### ISO 11898 CAN card (82527)

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

**Channels:** Two ISO 11898-2 CAN channels (Unitrode UC5350D transceivers, opto-isolated), Intel 82527 CAN controllers

**Special Features:** None



### Single-wire CAN card (82527sw)

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

**Channels:** Two J2411 (SWCAN) channels (Melexis TH8056 transceivers), Intel 82527 CAN controllers

**Special Features:** Supports high-voltage wake-up, auto-detect GMLAN \$A5 "jump to high speed mode" sequence



### ISO 11898 CAN card (SJA1000)

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

**Channels:** Two ISO 11898-2 CAN channels (Philips TJA1050 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



### 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-GRYPH-MOD-I

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

**Channels:** One ISO 11992 CAN channel (Atmel/Temic B10011SAM), one ISO 11898-2 CAN channel (Philips TJA 1050), Intel 82527 CAN controllers

**Special Features:** None

## I/O Module

### I/O Card

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

**Channels:**

- Eight analog input channels
  - 0-40 VDC
  - 12 bit converter resolution (for full 40 V range this would be 0.01 volt / bit)
  - Software selectable gain (1, 2, 3, 5, 8, 10, 16, 20)
- Four digital output channels
  - Open collector
  - Software selectable pullup (none, 5 VDC, VBAT)
  - 200 mA max. current per pin
- One analog output channel
  - 5-20 VDC
  - +/- 0.1 volts accuracy
  - 200 mA max. source current
  - 300 mA max. sink current
  - Supports J2534 reprogramming voltage requirement

**Special Features:** Analog channels will support polled mode access, periodic reporting, or change of state / threshold reporting.

## More Protocol Modules

### J1850 Protocol Modules



#### 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

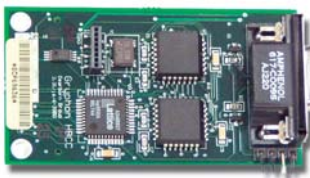


#### DCX (Chrysler J1850, SCI) card

Part number: DG-GRYPH-MOD-C

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

Special Features: Supports IFRs



#### 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 Protocol Modules



#### LIN card

Part number: DG-GRYPH-MOD-L

Channels: One LIN channel (Motorola MC33399 transceiver)

Special Features: Support LIN 1.2 specification, master and slave functionality



#### KWP2000 card

Part number: DG-GRYPH-MOD-K

Channels: One ISO 9141 / KWP 2000 channel, (Siliconix SI9241AEY transceiver)

Special Features: ECU and tester functionality



#### Ford UBP card

Part number: DG-GRYPH-MOD-U

Channels: One 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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