

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 Dearborn Group'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. Dearborn Group also supports one I/O module to round out its offering.



CAN Protocol Modules



Single-wire CAN card (SJA1000sw)

Part number: DG-GRYPH-MOD-W

Channels: Two J2411 (SWCAN, GMW3089 ver.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



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 11892 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:

- Four digital output channels
 - Open collector
 - Software selectable pullup (none, 5 VDC, VBAT)
 - 200 mA max. current per pin
- Two digital input channels

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



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 2.0 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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