

Dearborn Group QUAD-CAN Card Modules and Associated Hardware

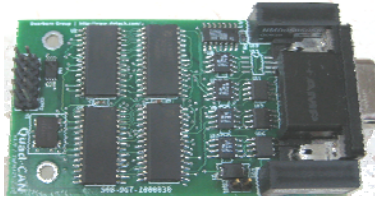
GRYPHON[®] QUAD-CAN Card Module

QUAD-CAN “R” Card

The “R” card has four, independent, High-Speed CAN channels that allow the user simultaneous and rapid access to all four channels for greater efficiency.

Part number:

DG-GRYPH-MOD-R



QUAD-CAN “Q” Card

The “Q” card has one Single Wire CAN channel and three High-Speed CAN channels. This card was developed for support of GM Global-A vehicles.

Part number:

DG-GRYPH-MOD-Q

OVERVIEW

The QUAD-CAN card plugs into a standard GRYPHON[®] module connection.

Supported by the following Gryphon hardware:

- Gryphon 2 and Standard Gryphon
- Gryphon – S3
- S2 (S-CAT 2)
- OBD II interface cable for Global-A vehicles

Supporting Software:

- DG HERCULES version 4.0.8 or later
- GM DPS
- J2534 DLL (Easy API)
- Labview Drivers

Firmware required:

- Gryphon firmware dated June 29, 2007 or later

QUAD-CAN “R” Card

Features:

- Four independent ISO 11898-2 High-Speed CAN channels (DC isolated, 2.5 KV)
- Utilizes SJA1000 controllers
- Software selectable termination resistor
- Selectable level of error reporting
- CAN line protection: TVS = 26VAC, 30A (0.1J)
- Connector Pin Assignments (See Table 1 on following page)

QUAD-CAN “Q” Card

Features:

- One Single Wire CAN channel (GMW3809.2.2)
- Three ISO 11898-2 High Speed CAN channels (DC isolated, 2.5 KV)
- Utilizes SJA1000 controllers
- Software selectable termination resistor
- Selectable level of error reporting
- CAN line protection: TVS = 26VAC, 30A (0.1J)
- Channel assignments corresponding to the GM implementation (See Table 2 on following page)

GRYPHON[®] Hardware Using QUAD-CAN Card Modules



Gryphon – S3



Gryphon 2



Standard Gryphon

Table 1 – Pin Assignments Chart – “R” Card – DB15 HD Female Connector

Pin #	Signal Description	Pin #	Signal Description
1	CAN 2 – HS CAN – Lo (-)	9	CAN 4 – HS CAN – Lo (-)
2	CAN 1 – HS CAN – Lo (-)	10	Chassis Ground
3	CAN 3 – HS CAN – Hi (+)	11	CAN 3 – HS CAN – Lo (-)
4	No Connection (not used)	12	No Connection (not used)
5	Signal Ground	13	No Connection (not used)
6	CAN 2 – HS CAN – Hi (+)	14	No Connection (not used)
7	CAN 1 – HS CAN – Hi (+)	15	VBAT (12 V)
8	CAN 4 – HS CAN – Hi (+)		

Table 2 – Interconnection Chart – “Q” Card – DB15 To DLC (SAE J1962)

DB 15 ¹	Signal Description	DLC ²	DB 15 ¹	Signal Description	DLC ²
1	CAN 2 – Primary HS - Lo (-)	14	9	CAN 4 – Secondary HS, Lo (-)	13
2	CAN 1 – Signal Ground	5	10	Chassis Ground	4
3	CAN 3 – ICB (Infotainment) – Hi (+)	3	11	CAN 3 – ICB (Infotainment) – Lo (-)	11
4	No Connection (not used)	N/C	12	N/C (Reserved for Class 2)	2
5	Signal Ground	5	13	No Connection (not used)	N/C
6	CAN 2 – Primary HS – Hi (+)	6	14	No Connection (not used)	N/C
7	CAN 1 – Single Wire GMLAN (+)	1	15	VBAT (12 V)	16
8	CAN 4 – Secondary HS – Hi ((+)		Connectors: DB 15 HD Female¹ & DLC - SAE J1962²		