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)

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Dearborn Group Technology®

GRYPHON® Hardware Using QUAD-CAN Card Modules

Gryphon 2 (G2)

Standard Gryphon

Gryphon – S3

S2 (S-CAT 2)

Table 1 – Pin Assignment 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 Female[1] & DLC - SAE J1962[2]**		

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