

GCI04102 E84 RJ-11 Optical Transceiver Data Sheet



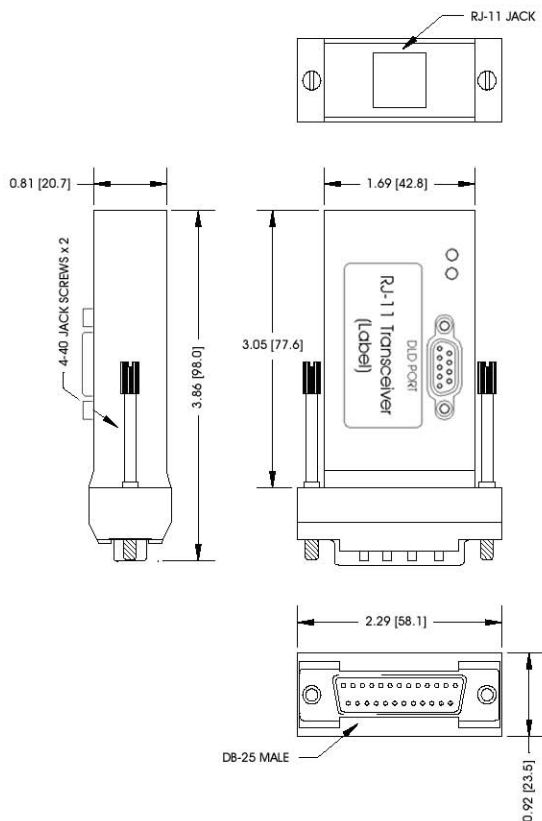
GCI's E84 DLD (Data Logging Device) capability is built into the GCI E84 RJ-11 Transceiver to non-intrusively log the last 50 E84 handoffs. Coupled with GCI's E84 Analysis Application program, the GCI E84 RJ-11 Transceiver provides an indispensable tool to capture, analyze and resolve E84 handoff problems without interrupting the work stream.

The GCI E84 RJ-11 Transceiver monitors all signal changes transmitted and received through the transceiver. A standard serial cable is used between the RJ-11's data port (DB-9) and a PC or GCI E84 Handheld Tester to configure recording and upload captured data. Accessing the data port does not interrupt the transceiver's E84 operation.

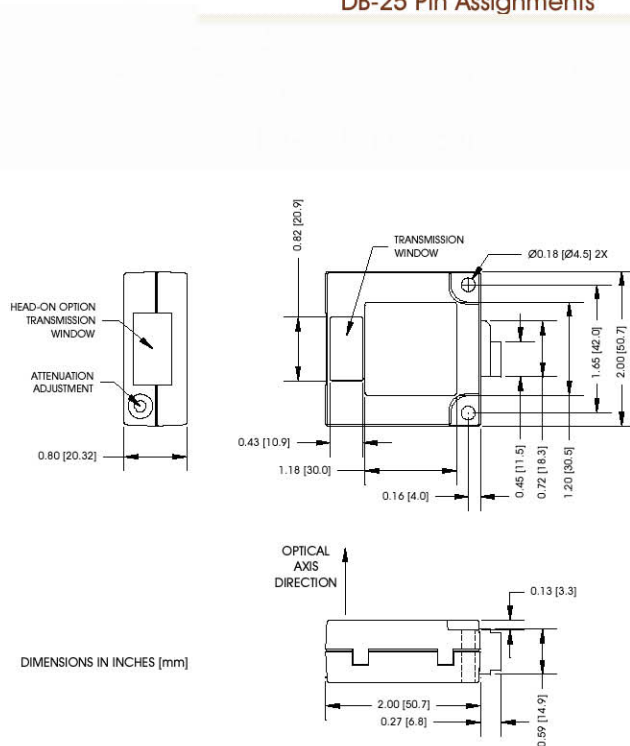
Pin	Male DB-25	
	Transceiver Signal	Related E84 Signal
1	IN 1	L_REQ
2	IN 2	U_REQ
3	IN 3	VA ⁴
4	IN 4	READY
5	IN 5	VS_0 ⁴
6	IN 6	VS_1 ⁴
7	IN 7	HO_AVBL
8	IN 8	ES
9	NC ¹	-
10	SELECT	Reserved ²
11	MODE	Reserved ²
12	GO	Reserved ²
13	NC ¹	-
14	OUT 1	VALID
15	OUT 2	CS_0
16	OUT 3	CS_1
17	OUT 4	AM_AVBL ⁴
18	OUT 5	TR_REQ
19	OUT 6	BUSY
20	OUT 7	COMPT
21	OUT 8	CONT
22	NC ¹	-
23	Power	24 Vdc
24	Power GND ³	Signal GND
25	Signal GND ³	Power COM

NOTE 1: Not Connected
 NOTE 2: The SEMI[®] E84 Specification states that Reserved signals may be used to support signals required for interface units.
 NOTE 3: Ground pins 24 and 25 are internally connected together.
 NOTE 4: For use with passive OHS vehicles.

DB-25 Pin Assignments



DIMENSIONS IN INCHES [mm]



DIMENSIONS IN INCHES [mm]

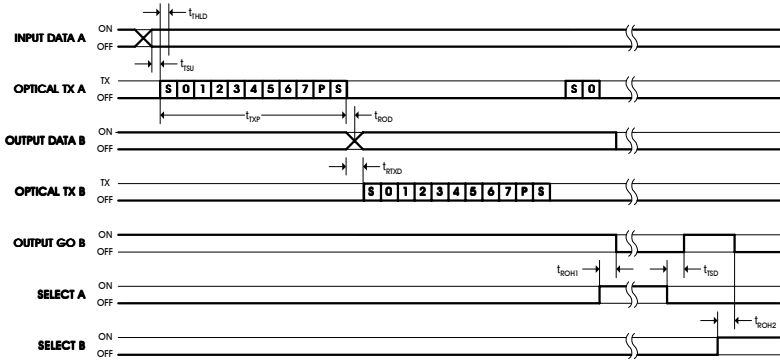
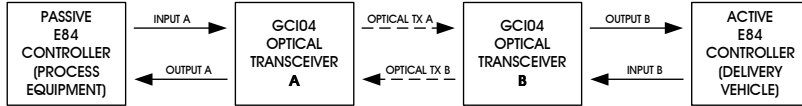
Get Control, Inc.

1530 N. Hobson St. Suite 101
Gilbert, Arizona 85233
USA

Phone: 480-539-0478
FAX: 480-539-0307
email: info@getcontrol.com

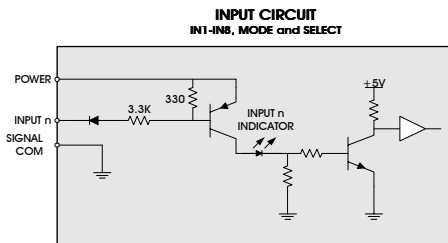
Brand and product names are trademarks or registered trademarks of their respective holders. Information is subject to change without notice. All rights reserved.

March 2003

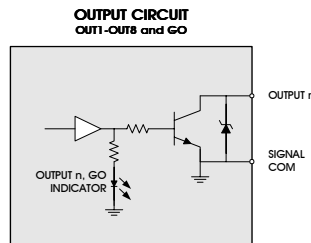
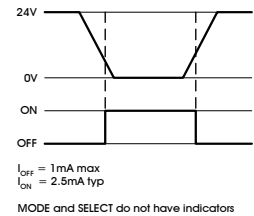


PARAMETER	DESCRIPTION	MIN	MAX	UNIT
t_{TSU}	Input setup time prior to transmission, all inputs	10		μ S
t_{THLD}	Input hold time, all inputs	0		μ S
t_{TXP}	Transmission Time	13	40	mS
t_{ROD}	Delay from valid reception to updated output		10	μ S
t_{RTXD}	Delay from valid reception to transmission		10	μ S
t_{ROH1}	Output hold time from Select A	50	90	mS
t_{TSD}	Transmission start delay from Select A	30	110	mS
t_{ROH2}	Output hold time from Select B	50	90	mS

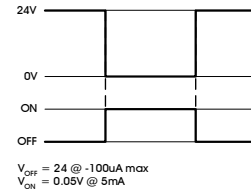
Timing Details



INPUT SWITCHING CHARACTERISTICS



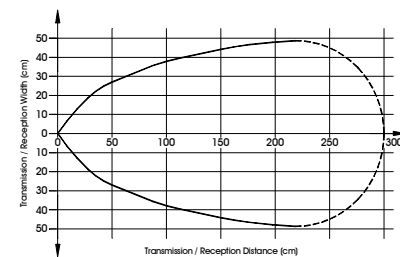
OUTPUT SWITCHING CHARACTERISTICS



Input and Output Sections

Power Source	18 to 30 VDC @ 100 mA max
Input	On 10 mA max, 1.8 VDC max Off 200 μ A max, 30 VDC max
Output	On 25 mA min Sink, 1.8 VDC max Off 100 μ A max Source, 30 VDC max
E84 Termination	Male DB-25 connector w/4-40 male thumbscrews
Interconnect Termination	RJ-11 4-conductor connectors on transceiver and adapter
Compatibility	GCI04001, GCI04002, DMS-HB1 and DM-HB1
Transceiver Dimensions	50mm x 50mm x 20mm (2.0" x 2.0" x 0.80")
Adapter Dimensions	77.6mm x 58.1mm x 23.5mm (3.0" x 2.3" x 0.9")
Transmission Capacity	Input: 8 bit Output: 8 bit
Transmission Method	Half-Duplex Two-Way Transmission
Transmission Time	Less than 40 milliseconds
Modulation Type	Pulse Modulation
Verification Method	Parity Check
Projection Element	Infrared LED, 875 nm, 120 mW/sr
Transmission Distance	1 meter (3' 4")
Reception Element	PIN Diode, 880 nm, 500 mW/cm ²

Specifications



Optical Transmission Area

Get Control, Inc.
Embedded Solutions