



Haidar Technology

Innovative measurement and control solutions for OEMs

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EVL-GML123

Evaluation Board For GLC-Mxx Series

Revision 1.00
Issue Date: 11/6/2007

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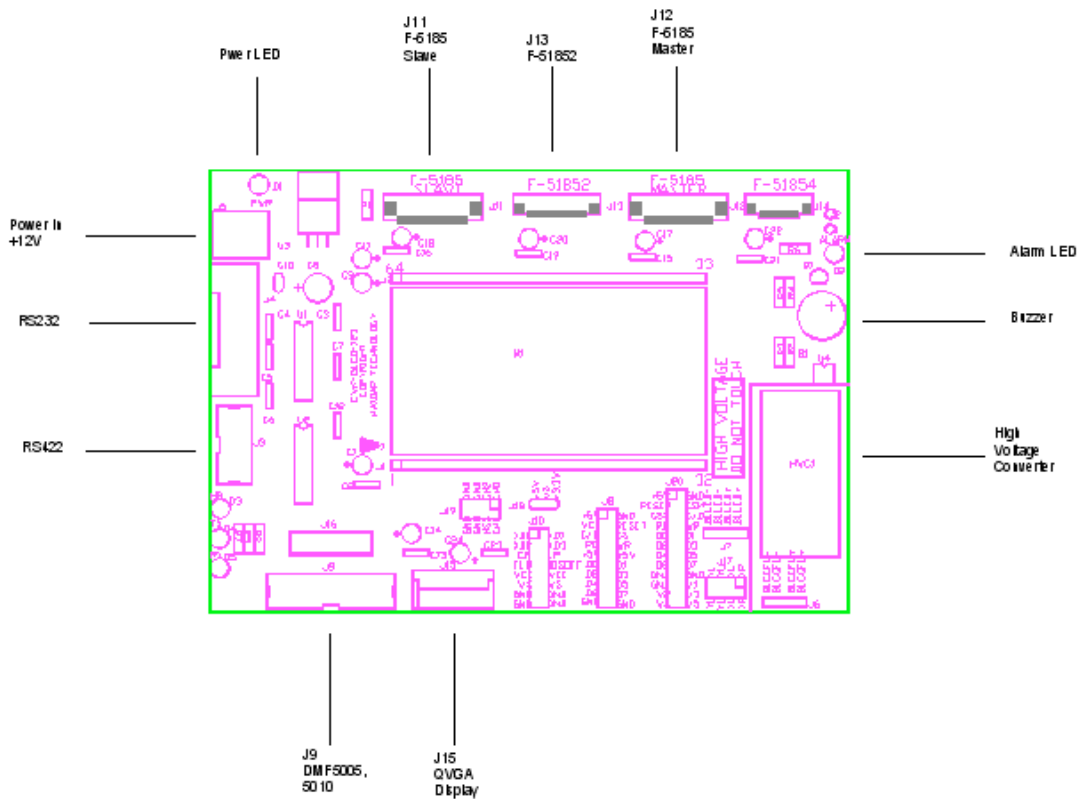
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1- Overview:

GLC – EVAL is an evaluation board for our graphic user interface monochrome LCD modules (GLC-Mxx) series.

2- Features:

- RS232 interface
- RS422/485 interface
- Direct connect to Optrex F-51851 series
- Direct connect to Optrex F-51852 series
- Direct connect to Optrex DMF series
- Direct connect to Microtips MTG-S322240 (QVGA) or compatible display
- Headers for custom display connection
- High voltage converter for CCFL back light
- Buzzer and LED indicators



3- Connectors

- **J4, 10 pins standard IDC connector for RS244/485 interface**

1	Receiver +
2	Receiver -
3	Transmitter -
4	Transmitter +
5 - 10	GND

- **J9, 20 pins standard IDC connector for Optrex DMF series**

1	GND
2	GND
3	VDD
4	VEE
5	WR
6	RD
7	CS
8	C/D
9	NC
10	RESET
11	D0
12	D1
13	D2
14	D3
15	D4
16	D5
17	D6
18	D7
19	GND
20	GND

- **J5, Power In connector (+12V)**
- **J16, For factory use only**
- **J3, RS232 connector**

- **J11 (Slave), 36 pins 0.5mm FFC connector for Optrex F-51851 display**

1	NC
2	FR
3	CL
4	DOF
5	CS
6	VDD
7	RESET
8	A0
9	WR
10	RD
11	D0
12	D1
13	D2
14	D3
15	D4
16	D5
17	D6
18	D7
19	VDD
20	GND
21	NC
22	NC
23	NC
24	NC
25	NC
26	NC
27	V1
28	V2
29	V3
30	V4
31	V5
32	NC
33	GND
34	VDD
35	NC
36	NC

- **J12 (Master), 36 pins 0.5mm FFC connector for Optrex F-51851 display**

1	NC
2	FR
3	CL
4	DOF
5	CS
6	VDD
7	RESET
8	A0
9	WR
10	RD
11	D0
12	D1
13	D2
14	D3
15	D4
16	D5
17	D6
18	D7
19	VDD
20	GND
21	NC
22	NC
23	NC
24	NC
25	NC
26	NC
27	V1
28	V2
29	V3
30	V4
31	V5
32	NC
33	GND
34	VDD
35	NC
36	NC

- **J13 , 30 pins 0.5mm FFC connector for Optrex F-51852 display**

1	CS
2	RESET
3	A0
4	WR
5	RD
6	D0
7	D1
8	D2
9	D3
10	D4
11	D5
12	D6
13	D7
14	VDD
15	GND
16	NC
17	NC
18	NC
19	NC
20	NC
21	NC
22	V1
23	V2
24	V3
25	V4
26	V5
27	NC
28	GND
29	VDD
30	GND

- **J14, 20 pins 0.5mm FFC connector for Optrex F-51854 (160X128)**
(The firmware to drive this display is not implemented yet)

1	CSM
2	CSS
3	RESET
4	C/D
5	WR
6	RD
7	D0
8	D1
9	D2
10	D3
11	D4
12	D5
13	D6
14	D7
15	GND
16	VDD
17	TP1
18	TP2
19	BL-LED+
20	BL-LED-

- **J15, 14 1mm FFC connector for QVGA displays**

1	GND
2	VEE
3	VEE
4	GND
5	VDD
6	CP
7	LP
8	NC
9	FLM
10	DisOFF
11	XD3
12	XD2
13	XD1
14	XD0

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