

LCD Module

RoHS

NLC160CG080CSJ

(Status: March 2009)

Specification V0.1

Approval of Specification

	Approved by	Date
Admatec	<i>Stahl</i>	12.03.10
Customer		

This product complies to EU directive 2002/95/EC (RoHS) of January 27th,2003.

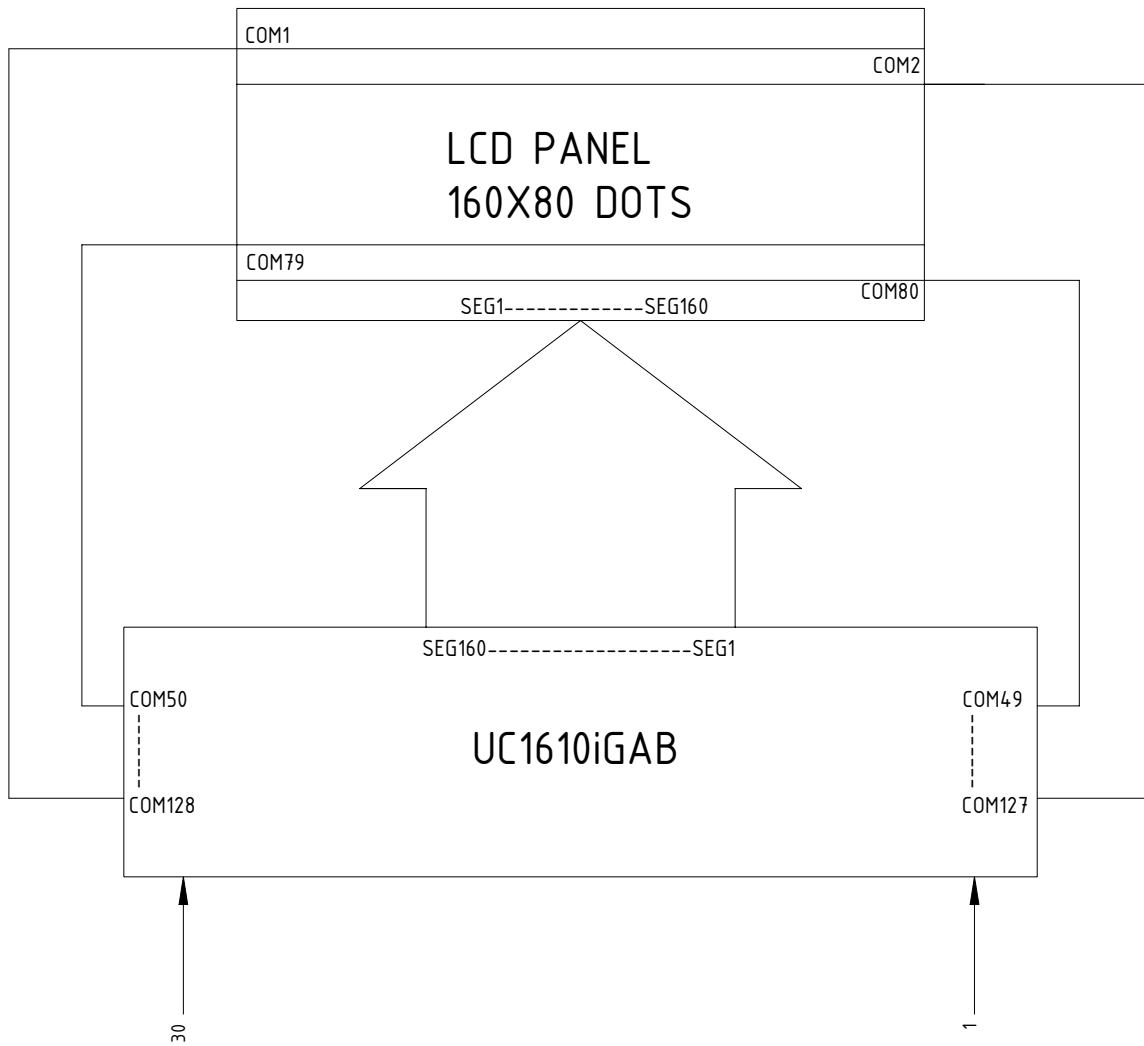


1. MECHANICAL DATA

NO.	ITEM	CONTENTS	UNIT
1	Product No.	NLC160CG080CSJ	
2	Module Size	70.2(W)*58.0(H)*5.2(T)	mm
3	Dot Size	0.35(W)*0.35(H)	mm
4	Dot Pitch	0.37(W)*0.37(H)	mm
5	Number of Dots	160(W)*80(H)	--
6	Duty; Bias	1/80; 1/10	--
7	LCD Type	FSTN, Transflective / Positive	--
8	Rear Polarizer	Transflective	--
9	Viewing Direction	6 O'clock	--
10	Backlight	LED white	--
11	Controller	UC1610iGAB	--
12	Weight	25 (Approx.)	g



5. BLOCK DIAGRAM

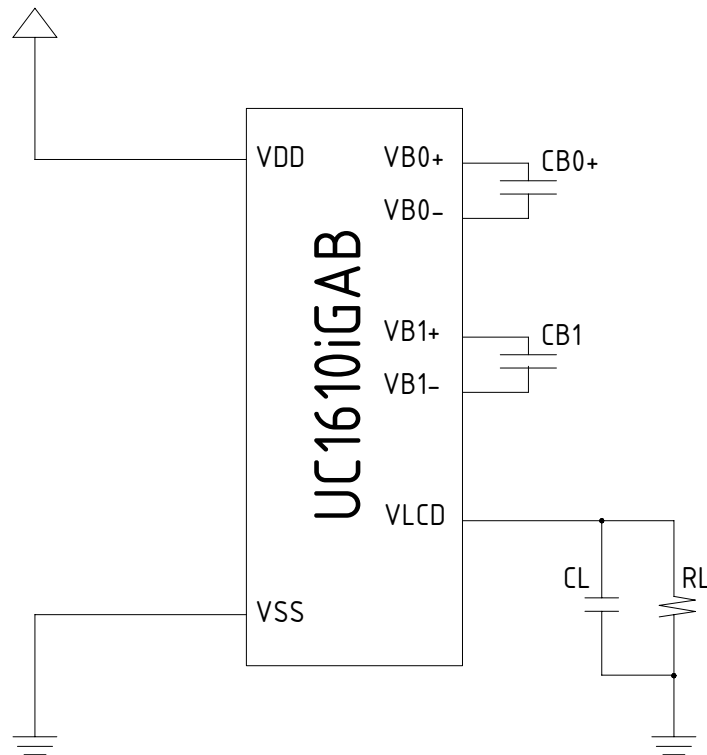




6. INTERNAL PIN CONNECTION

PIN No.	SYMBOL	FUNCTION																											
1	NC	No connect																											
2~9	D0-D7	Data bus																											
10	RST	Reset pin																											
11	CS0	Chip select pin																											
12	ID	This pin is for production control																											
13	CD	Select control data or display data for read/write operation																											
14	WR0	WR[1:0]controls the read/write operation of the host interface.																											
15	WR1																												
16	BM0	Bus mode: The interface bus mode is determined by BM[1:0] and D[7:6] by the following relationship: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>BM[1:0]</th> <th>D[7:6]</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>Data</td> <td>6800/8-bit</td> </tr> <tr> <td>10</td> <td>Data</td> <td>8080/8-bit</td> </tr> <tr> <td>01</td> <td>00</td> <td>6800/4-bit</td> </tr> <tr> <td>00</td> <td>00</td> <td>8080/4-bit</td> </tr> <tr> <td>01</td> <td>10</td> <td>3-wire SPI w/9-bit token (S9:conventional)</td> </tr> <tr> <td>01</td> <td>11</td> <td>2-wire I²C</td> </tr> <tr> <td>00</td> <td>10</td> <td>4-wire SPI w/8-bit token (S8: conventional)</td> </tr> <tr> <td>00</td> <td>11</td> <td>3-wire SPI w/8-bit token (S8uc: Ultra-Compact)</td> </tr> </tbody> </table>	BM[1:0]	D[7:6]	Mode	11	Data	6800/8-bit	10	Data	8080/8-bit	01	00	6800/4-bit	00	00	8080/4-bit	01	10	3-wire SPI w/9-bit token (S9:conventional)	01	11	2-wire I ² C	00	10	4-wire SPI w/8-bit token (S8: conventional)	00	11	3-wire SPI w/8-bit token (S8uc: Ultra-Compact)
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17	BM1																												
18~19	VSS	Ground																											
20~22	VDD	Power supply for digital																											
23	VB0-	LCD Bias voltages																											
24	VB1-																												
25	VB1+																												
26	VB0+																												
27~28	VLCD	LCD power supply																											
29	VBIAS	This is the reference voltage to generate the actual SEG driving voltage.																											
30	NC	No connect																											

7. POWER SUPPLY



CBX:2UF(2V)
CL:0.06UF~0.3UF(16V)
RL:10M Ω



9. DRAWING

PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL
1	NC	11	CSU	21	VOO
2	D0	12	D	22	VDD
3	D1	13	CD	23	VBI-
4	D2	14	WRD	24	VBI+
5	D3	15	WR1	25	VBI+
6	D4	16	BRD	26	VBI+
7	D5	17	BPH	27	VCCD
8	D6	18	VSS	28	VLCD
9	D7	19	VSS	29	VBIAS
10	RST	20	VDD	30	NC

Date	Name	Scale	Unit	mm	Size
18.12.10	Kellner	1:1	mm		A3
Display with Backlight					
Part No: NLC160CG080CSJ_V0.1					
ADMATEC GmbH					
0-20097 Hamburg					
This product complies to EU directive 2012/19/EC (RoHS) of January 27th, 2013					