

ISE Electronics Corp. Japan (Noritake/Itron)

### CU200211-MCPB-S31A

2x20, 5x7 CharSet, Punkt + Komma, 11 x 8 mm Zeichengröße

Modulgröße: 273 x 76 mm

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#### Connector + Jumper

Connector CN1 (links), 3 polig

Pin	Belegung	Info
1	Vcc	5 V, rund 1 A
2	Serial In	TTL Level
3	Gnd	

Connector CN2 (rechts), 26 polig

Pin	Belegung	Info	Pin	Belegung	Info
1	? DBx		14	Gnd	
2	Gnd		15	? DBx	
3	? DBx		16	Gnd	
4	Gnd		17	?	
5	? DBx		18	Gnd	
6	Gnd		19	?	
7	? DBx		20	Gnd	
8	Gnd		21	?	
9	? DBx		22	Gnd	
10	Gnd		23	?	
11	? DBx		24	Gnd	
12	Gnd		25	?	
13	? DBx		26	?	

## Jumper

J6	J5	J4	J3	J2	J1	J0	Funktion	
X	X	X	X	X	X	1	normal Operation	
X	X	X	X	X	X	0	Display Test	
X	X	X	X	X	1	X	Font Selection	
X	X	X	X	X	0	X		International
X	X	X	1	1	X	X	Parity Selection	
X	X	X	1	0	X	X		Even Parity
X	X	X	0	X	X	X		Odd Parity
X	X	X	0	X	X	X	None Parity	
1	1	1	X	X	X	X	Baud Rate Selection	
1	1	0	X	X	X	X		19200 BPS
1	0	1	X	X	X	X		9600 BPS
1	0	0	X	X	X	X		4800 BPS
0	1	1	X	X	X	X		2400 BPS
0	1	0	X	X	X	X		1200 BPS
0	1	0	X	X	X	X	600 BPS	
1	1	1	1	1	1	1	Factory Setting	

0: Short      1: Open      X: Don't Care

## Protocol

Code	Bezeichnung	Beschreibung
BS (0x08)	Back Space	Cursor links
HT (0x09)	Horizontal Tab	Cursor rechts
LF (0x0A)	Line Feed	Cursor runter
FF (0x0C)	Form Feed	Cursor oben links
CR (0x0D)	Carriage Return	Cursor linker Rand
DC1 (0x11)	Device Control 1	Character Overwrite Mode
DC2 (0x12)	Device Control 2	Scroll Up Mode
DC5 (0x15)	Device Control 5	blinking Cursor block
DC6 (0x16)	Device Control 6	Cursor is hidden
CT0 (0x17)	Character Table 0	International Font
CT1 (0x18)	Character Table 1	Katakana Font
DP (0x1C)	Decimal Point	prefix before character to show decimal point, comma or semi colon
COM (0x1D)	Comma	
COL (0x1E)	Semi Colon	
ESC (0x1B)	Escape sequence	See below

## Escape Sequences

<b>0x1B + ...</b>	<b>Bezeichnung</b>	<b>Beschreibung</b>
UDF (0x43)	User Definable Font	CHR + PT1 + PT2 + PT3 + PT4 + PT5  CHR zu ersetzender CharCode PT1 – PT5 Character Pixeldaten
CP (0x48)	Cursor Position	POS  POS position of cursor: 1 <sup>st</sup> line: 0x00 .. 0x13 2 <sup>nd</sup> line: 0x14 .. 0x27
RESET (0x49)	Reset	Reset all settings, UDF, display content, etc
DIM (0x4C)	Dimming	LV  LV luminance value 0x00 .. 0xFF
TM (0x52)	Test Mode	Output all characters
BLS (0x54)	Blink Speed Control	BSV  BSV blink speed value: 0x01 = 1 ... 0xFF = 255 0x00 = 256  blinking period = Value * 29 ms