

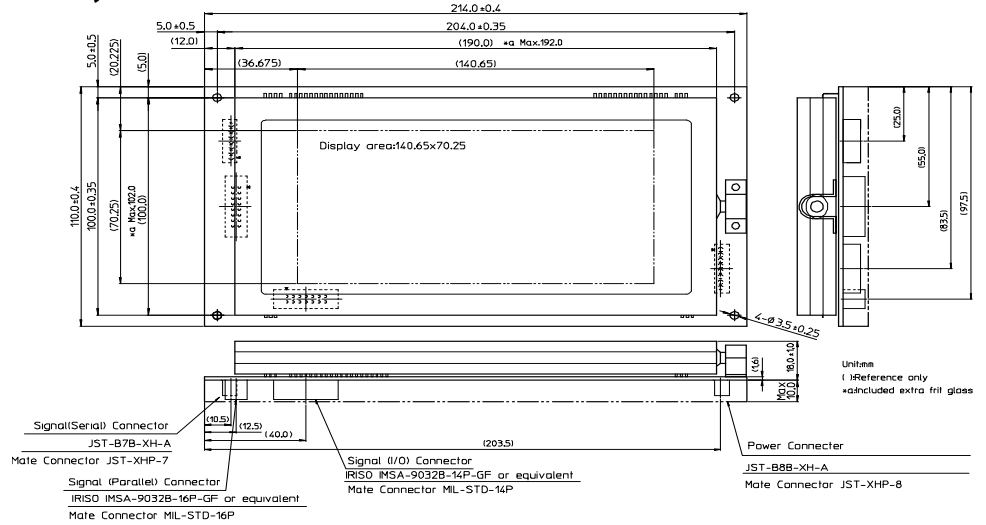
GU256X128E-3900B

SIMPLIFIED DATASHEET

Features

Largest VFD in the 256x128 dot size. High-impact graphic module. For bigger and bolder information display.

Physical dimension



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Specifications

Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply voltage	VCC1	4.75	5.00	5.25	VDC	-
	VCC2	11.4	12.0	12.6	VDC	-

Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Parallel I/F						
Logic input current	I _{pIH}	-	-	1.0	μADC	-
D0-D7 /WR	I _{pIL}	-	-	-200	μADC	-
Logic input voltage	V _{pIH}	0.8VCC1	-	VCC1	VDC	-
D0-D7 /WR	V _{pIL}	0	-	0.2VCC1	VDC	-
Logic output voltage	V _{pOH}	3.5	-	VCC1	VDC	I _{OH} =-10μA
RDY	V _{pOL}	0	-	0.6	VDC	I _{OL} =4mA
RS-232 I/F						
Logic input voltage	V _{sIH}	3	-	15	VDC	-
RXD, DSR	V _{sIL}	-15	-	-3	VDC	-
Logic output voltage	V _{sOH}	5	-	-	VDC	R _L =3KΩ
RXD, DSR	V _{sOL}	-	-	-5	VDC	-
Logic input Impedance	R _{sIN}	3	-	7	KΩ	-
RXD, DSR						
General-purpose I/O port						
Power Supply Current 1	ICC1	-	80	120	mADC	-
Power Supply Current 2	ICC2-1	-	0.75	1.05	ADC	All dots ON
	ICC2-2	-	0.55	0.75	ADC	All dots OFF
	ICC2-3	-	0.7	1.4	mADC	Display power OFF
Power Consumption		-	9.4	13.2	W	All dots ON

Optical Specifications

Parameter	Value
Luminance	350 cd/m ² Min. (500 cd/m ² Typ.)
Color of illumination	Green (Blue-Green)

Environmental Specifications

Parameter	Value
Operating Temperature	-40 ~ +70 degrees celsius
Storage Temperature	-40 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Vibration (non-operating)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (non-operating)	392m/s ² (40G) 9ms X-Y-Z, 3 times each direction

Physical Specifications

Parameter	Value
Number of Dots	32,768 (256 x 128)
Display Area	140.65 mm x 70.25mm
Dot Size (X x Y)	0.4 mm x 0.4 mm
Dot Pitch (X x Y)	0.55 mm x 0.55 mm
Weight	About 630 g

Interface

Parallel (CMOS), Asynchronous Serial (RS232), I/O port

Pin Assignment

Pin No.	Signal	Pin No.	Signal
1	D7	2	D6
3	D5	4	D4
5	D3	6	D2
7	D1	8	D0
9	GND	10	/WR
11	GND	12	RDY
13	GND	14	GND
15	VCC1	16	VCC1

(Asynchronous Serial)

Pin No.	Signal	Baud Rate Setting
1	RXD	4800bps
2	DTR	9600bps
3	DSR	19200bps
4	TXD	38400bps*
5	TEST	57600bps
6	VCC1	115200bps
7	GND	(*:Default setting)

(Power connector)

Pin No.	Signal
1	VCC1
2	GND
3	VCC2
4	GND
5	TEST

(General-purpose I/O port: Abbreviation)

Selectable Font

Parameter	Value
ASCII, KANA	All Font Size
International	6 x 8 / 8 x 16 / 12 x 24 / 16 x 32 dot
2-byte character	16x16 dot
Japanese	32 x 32 dot
Character numbers	42 x 16 by ASCII
	21 x 5 by 12 x 24 dot ASCII
	16 x 8 by 16 x 16 dot 2-byte character
	8 x 8 by 16 x 32 dot ASCII

Functions

Parameter	Value
Variable Character display	Variable Action Commands
Scroll function	Line / BOX Draw
Display Power Auto ON/OFF	AND/OR/XOR Mixture display
User Windows function	Program Macro function
I/O Port Control Function	Graphic DMA mode
Bit image by dot	
Variable stored settings	
etc.	