

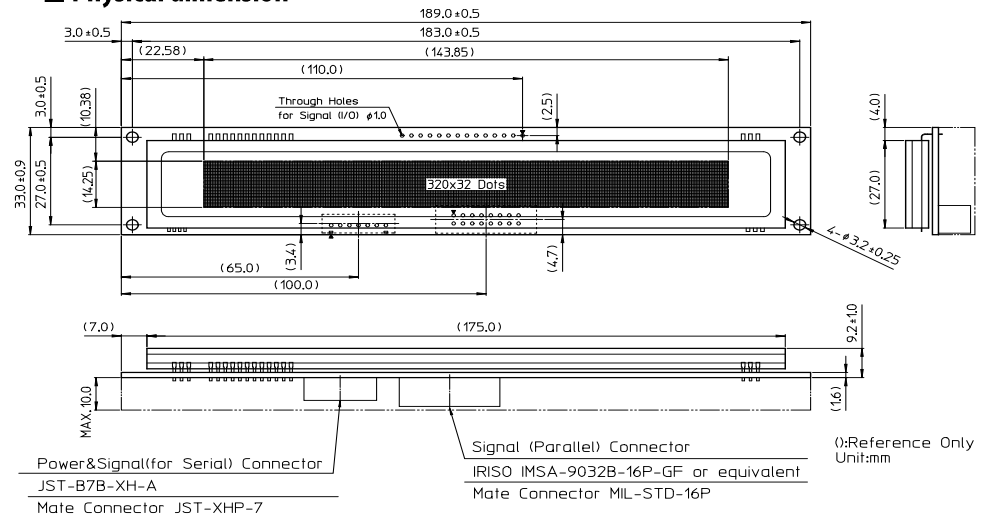
GU320X32D-3900

SIMPLIFIED DATASHEET

Features

Mid-sized display area VFD module. Long width suitable for message display in embedded system, or counter-top display unit, etc.

Physical dimension



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Specifications

Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
電源電圧	VCC	4.75	5.00	5.25	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}	0.8VCC	-	VCC	VDC	-
D0-D7 /WR	V _{pIL}	0	-	0.2VCC	VDC	-
Logic output voltage	V _{pOH}	3.5	-	VCC	VDC	I _{OH} =-10 μA
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	RL=3KΩ
RXD, DSR	V _{sOL}	-	-	-5	VDC	-
Logic input Impedance	R _{sIN}	3	-	7	KΩ	-
General-purpose I/O port						
Power Supply Current 1	ICC1	-	480	620	ADC	All dots ON
Power Supply Current 2	ICC2	-	380	490	ADC	All dots OFF
Power Supply Current 3	ICC3	-	80	120	mADC	Display power OFF
Power Consumption	-	-	2.4	3.1	W	All dots ON

Optical Specifications

Parameter	Value
Luminance	350 cd/m ² Min. (700 cd/m ² Typ.)
Color of illumination	Green (Blue-Green)

Environmental Specifications

Parameter	Value
Operating Temperature	-40 ~ +85 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	10,240 (320 x 32)
Display Area	143.85 mm x 14.25mm
Dot Size (X x Y)	0.3 mm x 0.3 mm
Dot Pitch (X x Y)	0.45 mm x 0.45 mm
Weight	About 82 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	VCC

(Asynchronous Serial)

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

(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	16 x 16 dot
Character numbers	52 x 4 by 6 x 8 ASCII 20 x 2 by 16 x 16 dot 2-byte character 20 x 1 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	
Variable stored settings	
etc.	