

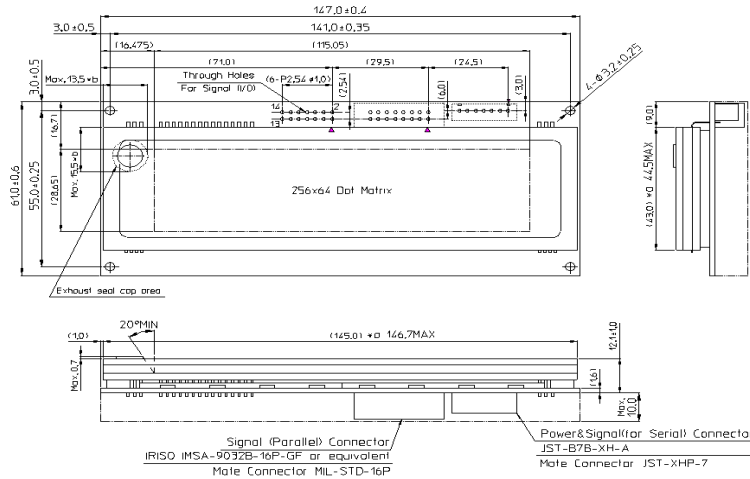
GU256X64D-3990B

SIMPLIFIED DATASHEET

Features

Higher resolution VFD - 256x64 dot model. Can display more information, or finely detailed font patterns. LED back light model.

Physical dimension



① : Reference only +a : Including extra frit glass +b : From face glass edge to exhaust seal cap edge
 Unit : mm Tolerance : ±0.5

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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	-

Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Parallel IF						
Logic input current D0-D7, /WR	I _{pIH}	-	-	1.0	μADC	-
Logic input voltage D0-D7, /WR	V _{pIH}	0.8VCC	-	VCC	VDC	-
Logic output voltage RDY	V _{pOH}	3.5	-	VCC	VDC	I _{OH} =-10 μA
RS-232 I/F						
Logic input voltage RXD, DSR	V _{sIH}	3	-	15	VDC	-
Logic output voltage RXD, DSR	V _{sOH}	5	-	VCC	VDC	RL=3KΩ
Logic input Impedance RXD, DSR	R _{sIN}	3	-	7	KΩ	-
Power Supply Current 1 5V	ICC1-1	-	0.85	1.1	ADC	VFD-ON, LED-OFF
Power Supply Current 2 24V	ICC1-2	-	0.6	0.8	ADC	VFD-OFF, LED-OFF
Power Consumption	ICC1-3	-	70	90	mADC	Power save mode
	ICC1-4	-	1.05	1.4	ADC	VFD-ON, LED-ON
	ICC1-5	-	0.8	1.1	ADC	VFD-OFF, LED-ON
		-	52.5	7.0	W	VFD-ON, LED-ON

Optical Specifications

Parameter	Value
Luminance	350 cd/m2 Min.
Color of illumination (VFD)	Green (Blue-Green)
(LED)	Blue, Red, Green

Environmental Specifications

Parameter	Value
Operating Temperature	0 ~ +50 degrees C (LED ON) / -40 ~ +70 degrees C (LED OFF)
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	16,384 (256 x 64)
Display Area	115.05 mm x 28.65 mm
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	約142g

Interface

Parallel(CMOS), Asynchronous Serial (RS232)

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	VCC	16	VCC

(Asynchronous Serial)

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

Selectable Font

Parameter	Value
ANK	*ANK(Alphabet, Numeric, 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, 32 x 32 dot
Character numbers	42 x 8 by 6 x 8 dot ASCII 21 x 2 by 12 x 24 dot ASCII 16 x 4 by 16 x 16 dot 2-byte character 8 x 2 by 32 x 32 dot Japanese

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
LED backlight control	etc.