

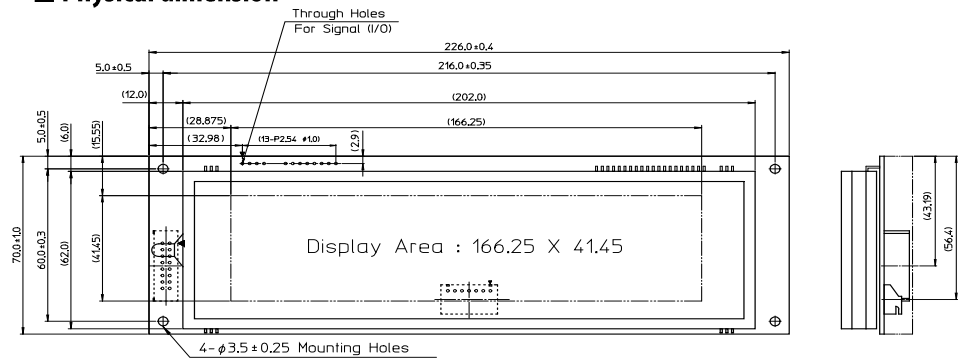
# GU256X64F-3100

## SIMPLIFIED DATASHEET

### Features

Uses the largest VFD in the 256x64 dot size. High-visibility display area, approximately 2x that of GU256X64C.

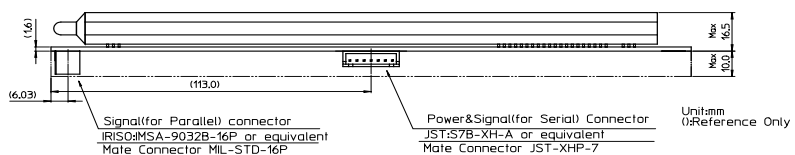
### Physical dimension



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### Specifications

#### Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply voltage	VCC	22.8	24.0	25.2	VDC	-

#### Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition	
<b>Parallel I/F</b>							
Logic input current	IpIH	-	-	1.0	μADC	-	
D0-D7,/WR	IpIL	-	-	-200	μADC	-	
Logic input voltage	VpIH	4.0	-	5.3	VDC	-	
D0-D7,/WR	VpIL	0	-	1.0	VDC	-	
Logic output voltage	VpOH	Open collector output					
RDY	VpOL	0	-	0.3	VDC	IOL=4mA	
<b>RS-232 I/F</b>							
Logic input voltage	VsIH	3	-	15	VDC	-	
RXD, DSR	VsIL	-15	-	-3	VDC	-	
Logic output voltage	VsOH	5	-	-	VDC	RL=3KΩ	
RXD, DSR	VsOL	-	-	-5	VDC	-	
Logic input Impedance	RsiN	3	-	7	KΩ	-	
RXD, DSR						Abbreviation	
General-purpose I/O port						Abbreviation	
Power Supply Current 1	ICC1	-	280	370	mADC	-	
Power Supply Current 2	ICC2	-	230	300	mADC	All dots ON	
Power Supply Current 3	ICC3	-	40	60	mADC	All dots OFF	
Power Consumption		-	6.72	8.88	W	All dots ON	

#### Optical Specifications

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

#### Environmental Specifications

Parameter	
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 <sup>2</sup> (40G) 9ms X-Y-Z, 3 times each direction

#### Physical Specifications

Parameter	
Number of Dots	16,384 (256 x 64)
Display Area	166.25 mm x 41.45 mm
Dot Size (X x Y)	0.5 mm x 0.5 mm
Dot Pitch (X x Y)	0.65 mm x 0.65 mm
Weight	About 330 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	VCC	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	* ANK(Alphabet, Numeric, Kana)
ANK	All Font Size
International	6 x 8 / 8x16 / 16x32
Japanese	16x16
Japanese	32x32
Character numbers	42 x 8 by ASCII
	16 x 4 by 16 x 16 dot Japanese
	8 x 2 by 32 x 32 dot Japanese

#### Functions

Parameter	
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.	