

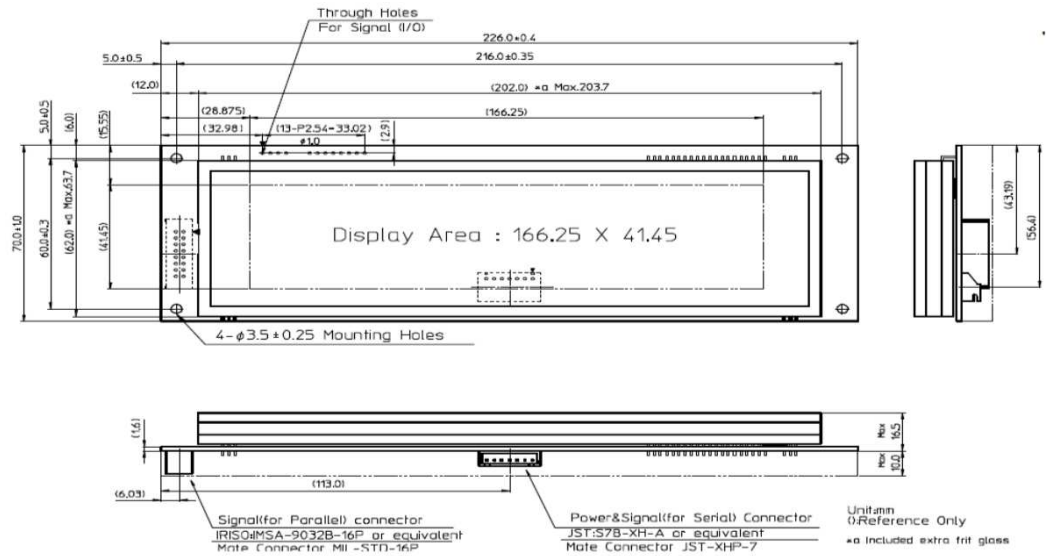
**GU256X64F-3900B**

SIMPLIFIED DATASHEET

■ Features

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

■ Physical dimension



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 IF</b>						
Logic input current	I <sub>pIH</sub>	-	-	1.0	μADC	-
D0-D7,WR	I <sub>pIL</sub>	-	-	-200	μADC	-
Logic input voltage	V <sub>pIH</sub>	4.0	-	5.3	VDC	-
D0-D7,WR	V <sub>pIL</sub>	0	-	1.0	VDC	-
Logic output voltage	V <sub>pOH</sub>	Open Collector (Output)				*1
RDY	V <sub>pOL</sub>	0	-	0.3	VDC	IOL=10mA
<b>RS232 I/F</b>						
Logic Input Voltage	V <sub>sIH</sub>	3	-	15	VDC	-
RXD, DSR	V <sub>sIL</sub>	-15	-	-3	VDC	-
Logic Output Voltage	V <sub>sOH</sub>	5	-	-	VDC	RL=3KΩ
TXD, DTR	V <sub>sOL</sub>	-	-	-5	VDC	-
Logic Input Impedance	R <sub>sIN</sub>	3	-	7	KΩ	-
RXD, DSR						
<b>General-purpose I/O port</b>						
Power Supply Current 1	ICC1	-	0.28	0.37	ADC	All dots ON
Power Supply Current 2	ICC2	-	0.23	0.3	ADC	All dots OFF
Power Supply Current 3		-	20	30	mADC	Display power OFF
Power Consumption	ICC2	-	6.7	8.9	W	All dots ON

\*1) external pull-up (10 to 47KΩ) required

■ Optical Specifications

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

■ Environmental Specifications

Parameter	Value
Operating Temperature	-40 ~ +70 degrees celsius
Storage Temperature	-40 ~ +85 degrees celsius
Storage 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	Value
Number of Dots	16,384 (256x64)
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 320 g

■ Interface

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

■ Pin Assignment (Parallel)

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)

(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
Japanese	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 by dot	
Variable stored setting	
etc.	



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