

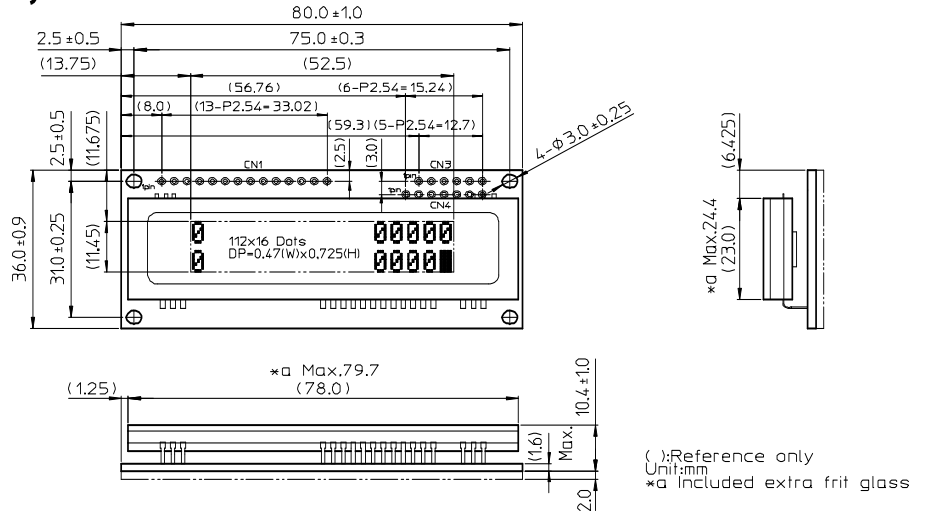
GU112X16G-7003B

SIMPLIFIED DATASHEET

■ Features

The most compact VFD module in the GU-7000 series.
Size compatible with typical LCD modules, for flexible positioning, or as drop-in replacement.

■ Physical dimension



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Specifications

■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply voltage	VCC	4.75	5.00	5.25	VDC	-

■ Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
'L' Logic Input Current SIN, SCK, /CS, /RESET	IIL	-	-	-0.6	mA	VIN=0V
'H' Logic Input Current SIN, SCK, /CS, /RESET	IIH	-	-	1.0	μADC	VIN=5V
Logic Input Voltage	VIH	0.8VCC	-	VCC	VDC	-
Logic Input Voltage SIN, SCK, /CS, /RESET	VIL	0	-	0.2VCC	VDC	-
Logic Output Voltage	VOH	3.8	-	VCC	VDC	IOH=-1.5mA
Logic Output Voltage SBUSY	VOL	0	-	0.6	VDC	IOL=1.6mA
Power Supply Current 1	ICC-1	-	220	280	mADC	All dots ON
Power Supply Current 2	ICC-2	-	190	240	mADC	All dots OFF
Power Supply Current 3	ICC-3	-	11	15	mADC	Display power OFF
Power Consumption		-	1.1	1.40	W	All dots ON

■ Optical Specifications

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

■ Environmental Specifications

Parameter	
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-60 ~ +85 degrees (Under 168 hours)/-40 ~ +85 degrees (Or more)
Operating Humidity	20 ~ 80% R.H. (non-condensing)
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 ² (40G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	
Number of Dots	1,792 (112 x 16)
Display Area	52.5 mm x 11.45 mm
Dot Size (X x Y)	0.33 mm x 0.575 mm
Dot Pitch (X x Y)	0.47 mm x 0.725 mm
Weight	About 31 g

■ Interface

Sync/Asynchronous Serial, SPI(CMOS)

■ Pin Assignment

(Synchronous)		(SPI)
Pin No.	Signal	Pin No. Signal
1	VCC	1 VCC
2	SIN	2 SIN
3	GND	3 GND
4	SBUSY	4 SBUSY
5	SCK	5 SCK
6	/RESET	6 /RESET
7	NC	7 /CS

(Asynchronous)

Pin No.	Signal	Baud Rate Setting
1	VCC	9600bps
2	SIN	19200bps
3	GND	38400bps*
4	SBUSY	115200bps
5	NC	(*:Default setting)
6	/RESET	
7	NC	

■ Selectable Font

Parameter	
Character font type	5 x 7 ANK, International
Character width	Fixed/Proportional character format 1&2
Character numbers	16 x 2 by 5 x 7 dot ASCII 18 x 2 by 5 x 7 dot Proportional

■ Functions

Parameter	
Control command	
Scroll display action	
Proportional Font function	
User-Windows function	
AND/OR/XOR Mixture display	
Reverse display	
Dot unit real-time bit image display	
Download character function	
Font Magnification function	
etc.	

