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[Noritake Co., Inc.](#)

[GU140X16G-7000B](#)

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sales@integrated-circuit.com

VFD Module GU-7000 series

Noritake itron

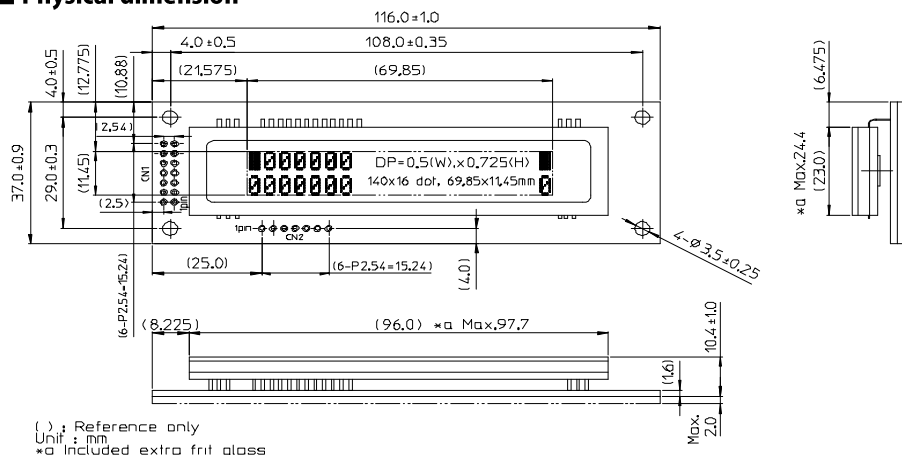
GU140X16G-7000B

SIMPLIFIED DATASHEET

■ Features

VFD module with same size and shape as LCD module. LED backlight models are also available, for additional display effect.

■ Physical dimension



Get full specification



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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 D0-D7, /WR, /RD /RESET	IIL1 IIL2	-	-	-0.15 -0.6	mA	VIN=0V
'H' Logic Input Current D0-D7, /WR, /RD, /RESET	IIH	-	-	1.0	μADC	VIN=5V
Logic Input Voltage D0-D7, /WR, /RD, /RESET	VIH VIL	0.8VCC 0	-	VCC 0.2VCC	VDC	-
Logic Output Voltage D7(Busy flag), PBUSY	VOH VOL	3.8 0	-	VCC 0.6	VDC	IOH=-1.5mA IOL=1.6mA
Logic input resistance SIN	RIN	3	-	-	KΩ	-
Logic Input Voltage SIN	VIH VIL	3.0 -15	-	+15 0.5	VDC	-
Logic Output Voltage SBUSY	VOH VOL	4.0 0	-	VCC 0.5	VDC	RL=3KΩ RL=3KΩ
Power Supply Current 1	ICC-1	-	240	300	mADC	All dots ON
Power Supply Current 2	ICC-2	-	200	250	mADC	All dots OFF
Power Supply Current 3	ICC-3	-	12	15	mADC	Display power OFF
Power Consumption		-	1.2	1.5	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	2,240 (140 x 16)
Display Area	69.85 mm x 11.45 mm
Dot Size (X x Y)	0.350 mm x 0.575 mm
Dot Pitch (X x Y)	0.500 mm x 0.725 mm
Weight	About 40 g

■ Interface

Parallel(CMOS), Asynchronous Serial (RS232)

■ Pin Assignment (Parallel)

Pin No.	Signal	Pin No.	Signal
1	GND	2	VCC
3	NC	4	RS
5	/WR	6	/RD
7	D0	8	D1
9	D2	10	D3
11	D4	12	D5
13	D6	14	D7(PBUSY)

(Asynchronous Serial)

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		*ANK(Alphabet, Numeric, Kana)
Character font type	5 x 7	ANK, International
Character width	Fixed/Proportional	character format 1&2
Character numbers	20 x 2 by 5 x 7 dot ASCII	
	23 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.	