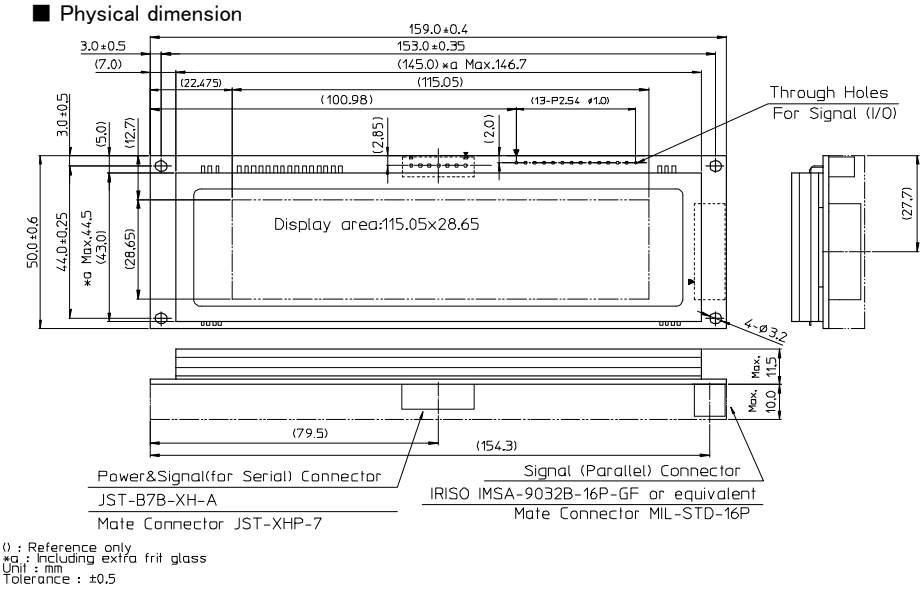
GU256X64D-3900B

SIMPLIFIED DATASHEET

■ Features

Mid-sized VFD. 256x64 dot, high resolution, for showing more information in one view.

■ Physical dimension



() : Reference only
*a : Including extra frit glass
Unit : mm
Tolerance : ±0.5

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
Parallel IF						
Logic input current	IpIH	–	–	1.0	μADC	–
D0-D7,/WR	IpIL	–	–	-200	μADC	–
Logic input voltage	VpIH	0.8VCC	–	VCC	VDC	–
D0-D7,/WR	VpIL	0	–	0.2VCC	VDC	–
Logic output voltage	VpOH	3.5	–	VCC	VDC	IOH=-10μA
RDY	VpOL	0	–	0.6	VDC	IOL=4mA
RS-232 I/F						
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						
RXD, DSR	RsIN	3	–	7	KΩ	–
General-purpose I/O port						Abbreviation
Power Supply Current 1	ICC1	–	0.85	1.11	ADC	All dots ON
Power Supply Current 2	ICC2	–	0.70	0.91	ADC	All dots OFF
Power Supply Current 3	ICC3	–	80	120	mADC	Display power OFF
Power Consumption		–	4.25	5.55	W	All dots ON

■ Optical Specifications

Parameter	
Luminance	350 cd/m^2 Min. (800 cd/m^2 Typ.)
Color of illumination	Green (Blue-Green)

■ Environmental Specifications

Parameter	
Operating Temperature	-40 ~ +85 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^2 (40G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	
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	About 124 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	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	*ANK(Alphabet, Numeric, Kana)
ANK	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	
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 settings	
etc.	

RoHS COMPLIANT

Leaflet contents, and specifitaions and external appearance of products, may change without notice.
Please confirm product details in the specification.
(C)Copyright NORITAKE ITRON CORP.