Noritake itron

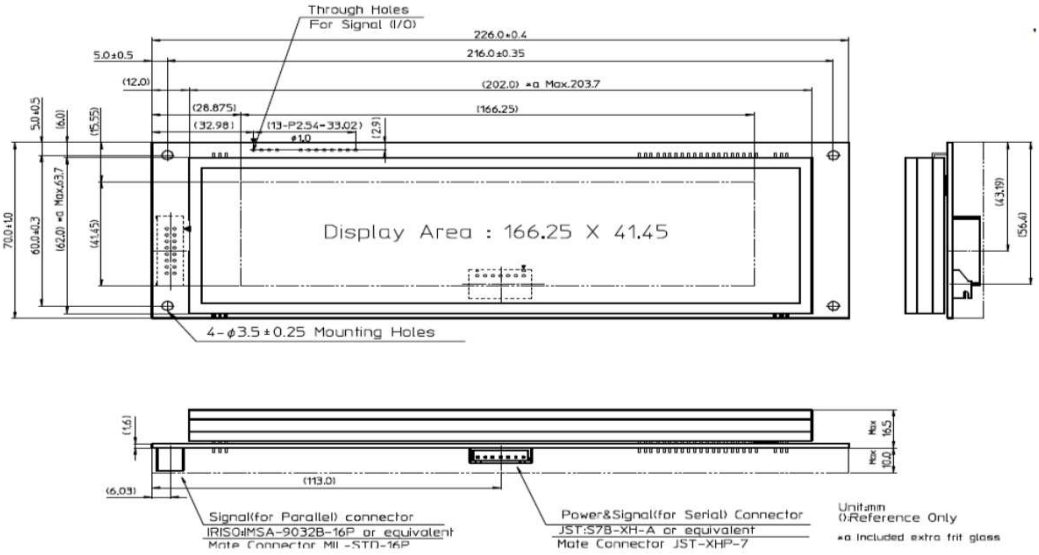
GU256X64F-3900B

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
Palrallel IF						
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)			*1
RDY	VpOL	0	-	0.3	VDC	IOL=10mA
RS232 I/F						
Logic Input Voltage	VsIH	3	-	15	VDC	-
RXD, DSR	VsIL	-15	-	-3	VDC	-
Logic Output Voltage	VsOH	5	-	-	VDC	RL=3KΩ
TXD, DTR	VsOL	-	-	-5	VDC	
Logic Input Impedance						
RXD, DSR	RsIN	3	-	7	KΩ	-
General-purpose I/O port						Abbreviation
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	
Luminance	350 cd/m^2 Min. (700 cd/m^2 Typ.)
Color of illumination	Green (Blue-Green)

■ Environmental Specifications

Parameter	
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/s2 (40G) 9ms x-y-z, 3 times each direction

■ Physical Specifications

Parameter	
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	
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	
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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