

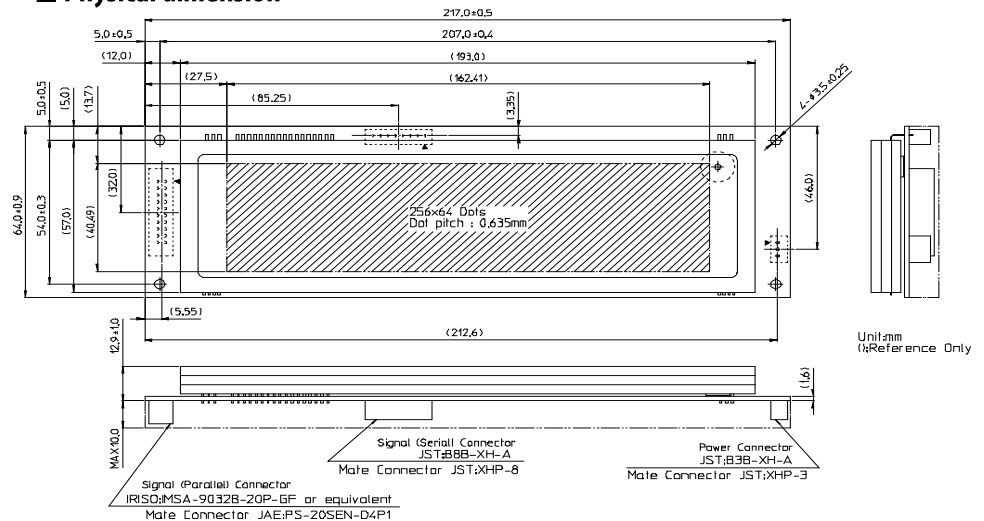
GU256X64F-A002

SIMPLIFIED DATASHEET

■ Features

Module with 16-step
grey-scale display.
High-speed
communication possible
through SPI interface.

■ 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
Parallel IF						
Logic input current	IpIH1	-	-	1.0	μA	-
(D0-D7)	IpIL1	-	-	-0.15	mA	-
Logic input current (XCS, XWR/RW, XRD/EN, RS)	IpIH2	-	-	1.0	μA	-
	IpIL2	-	-	-0.25	mA	-
Logic input voltage (XRD/EN, D0-D7, XWR/RW, RS, XCS)	VpIH	2.0	-	-	VDC	-
	VpIL	0	-	0.8	VDC	-
Logic output voltage	VpOH	2.7	-	VCC	VDC	IpOH=-5 μA
(WAIT)	VpOL	0	-	0.5	VDC	IpOL=5mA
Serial IF						
Logic input current (SPISI, SPICK, SPICS, ROMACS)	IsIH	-	-	1	μA	-
	IsIL	-	-	-0.15	mA	-
Logic input voltage (SPISI, SPICK, SPICS, ROMACS)	VsIH	2.0	-	-	VDC	-
	VsIL	-	-	0.8	VDC	-
Logic output voltage	VsOH	2.7	-	-	VDC	IsOH=-5 μA
(SPISO)	VsOL	-	-	0.5	VDC	IsOL=5mA
FRP Logic input Voltage	VfOH	2.7	-	-	VDC	IrOH=-5mA
	VfOL	-	-	0.5	VDC	IrOL=5mA
XRESET Logic input current						
	IrIH	-	-	1	μA	-
	IrIL	-	-	-0.65	μA	-
Logic input voltage	VrIH	1.1	-	2.4	VDC	-
	VrIL	0.5	-	1.7	VDC	-
TEST Logic input current						
	ItIH	-	-	1	μA	-
	ItIL	-	-	-0.35	μA	-
Logic input voltage	VtIH	2	-	-	VDC	-
	VtIL	-	-	0.8	VDC	-
Power Supply Current 1	ICC-1	-	1.4	1.8	ADC	All dots ON
Power Supply Current 2	ICC-2	-	1.0	1.3	ADC	All dots OFF
Power Supply Current 3	ICC-3	-	20	30	mADC	Display power OFF
Power Consumption		-	7.0	9.0	W	All dots ON

■ Environmental Specifications

Parameter	
Operating Temperature	-40 ~ +70 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	162.41 mm x 40.49 mm
Dot Size (X x Y)	0.485 mm x 0.485 mm
Dot Pitch (X x Y)	0.635 mm x 0.635 mm
Weight	About 276 g

■ Optical Specifications

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

■ Interface

Parallel (CMOS), Asynchronous Serial (SPI compliant)

■ 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	XWR/RW
11	GND	12	XRD/EN
13	GND	14	RS
15	GND	16	XCS
17	GND	18	WAIT
19	FRP	20	XRESET

(Serial)

Pin No.	Signal
1	SPISO
2	SPISI
3	SPICK
4	SPICS
5	ROMACS
6	FRP
7	XRESET
8	GND

(Power)

Pin No.	Signal
1	VCC
2	TEST
3	GND

■ Functions

Parameter
16 Level Gray scale Scroll function 2 Layers support
Layer OR/AND/EOR/Alpha blending/ Outlining etc
Memory fill / All-area fill/ Box-area fill function
etc.