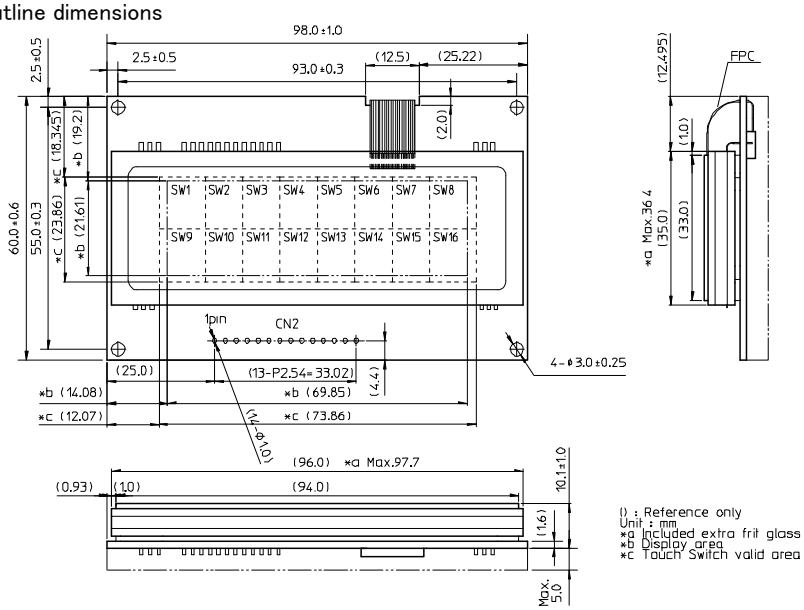
GU140X32F-D903S

SIMPLIFIED DATASHEET

■ Features

VF Display Module equips 16 (8x2) Capacitive Touch Switches.

■Outline dimensions



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■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power Supply Voltage	VCC	4.75	5.00	5.25	VDC	

■ Electrical Characteristics

Please refer to a full specification for Characteristics of I/O ort.

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
I2C Logic Input Current	IIH-1	–	–	-0.5	mA	VIN=0V
SDA,SCL,/RESET	IIL-1	–	–	1.0	μADC	VIN=3.3V
I2C Logic Input Voltage	VIH-1	2.5	–	–	VDC	–
SDA,SCL,/RESET	VIL-1	–	–	0.6	VDC	–
I2C Logic Output Voltage SD	VOL-1	–	–	0.5	VDC	IOL=0.5mA
I2C Logic Output Voltage	VOH-2	2.6	–	–	VDC	IOH=-0.5mA
MBUSY,/TRDY	VOL-2	–	–	0.5	VDC	IOL=0.5mA
Logic Input Current RxD	IIH-2	–	–	-0.5	mA	VIN=0V
MOSI,SCK,/CS,HBUSY,/RESET	IIL-2	–	–	1.0	μADC	VIN=3.3V
Logic Input Voltage RXD	VIH-2	2.5	–	–	VDC	–
MOSI,SCK,/CS,HBUSY,/RESET	VIL-2	–	–	0.6	VDC	–
Logic Output Voltage	VOH-3	2.6	–	–	VDC	IOH=-0.5mA
TXD,MISO,MBUSY,/TRDY	VOL-3	–	–	0.5	VDC	IOL=0.5mA
Power Supply Current	ICC-1	–	340	440	mADC	All dots turned on
	ICC-2	–	230	300	mADC	All dots turned off
	ICC-3	–	12	15	mADC	Display power off
Power consumption		–	1.7	2.2	W	All dots turned on

■ Optical characteristics

Parameters	
Luminance	300 cd/m^2 Min. (600 cd/m^2 Typ.)
Color of illumination	Green (Bluish green)

■ Physical Specification

Parameters	
Number of Dots	4,480 (140 x 32)
Active area (XxY)	69.85 mm x 21.61 mm
Size of Dot (XxY)	0.35 mm x 0.53 mm
Pitch of Dot (XxY)	0.50 mm x 0.68 mm
Weight	approximately 68 g

■ Environmental Specification

Parameters	
Operating Temperature	-40 ～ +85℃
Storage Temperature	-40 ～ +85℃
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/s2 (40G) 9ms X-Y-Z, 3 times each direction

■ Interface

Asynchronous Serial, SPI and I2C (Logic level is 3.3V for all)

■Pin Assignment

CN1: Asynchronous Serial

Pin No.	Signal	Pin No.	Signal
1	VCC	8	TXD
2	RXD	9	/TRDY
3	GND	10	GND
4	MBUSY	11	P00
5	IC	12	P01
6	/RESET	13	P02
7	HBUSY	14	P03

CN1 : SPI Interface

Pin No.	Signal	Pin No.	Signal
1	VCC	8	MISO
2	MOSI	9	/TRDY
3	GND	10	GND
4	MBUSY	11	P00
5	SCK	12	P01
6	/RESET	13	P02
7	/CS	14	P03

CN1 : I2C Interface

Pin No.	Signal	Pin No.	Signal
1	VCC	8	IC
2	SDA	9	/TRDY
3	GND	10	GND
4	MBUSY	11	P00
5	SCL	12	P01
6	/RESET	13	P02
7	IC	14	P03

■ Character Fonts

Parameters		
Font tables	5 x 7	Alpha-numeric, Kana, International
	8 x 16	Alpha-numeric, Kana, International
	16 x 16	CJK
Number of digits & line	5x7 dot font: 18/21digits x 4 lines	
	16x16 dot font: 8digits x 1line	

■ Functions

Characters and Graphics display, Control command,
Macro & P Macro, I/O port,
Touch Switch with Calibration, etc.

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