



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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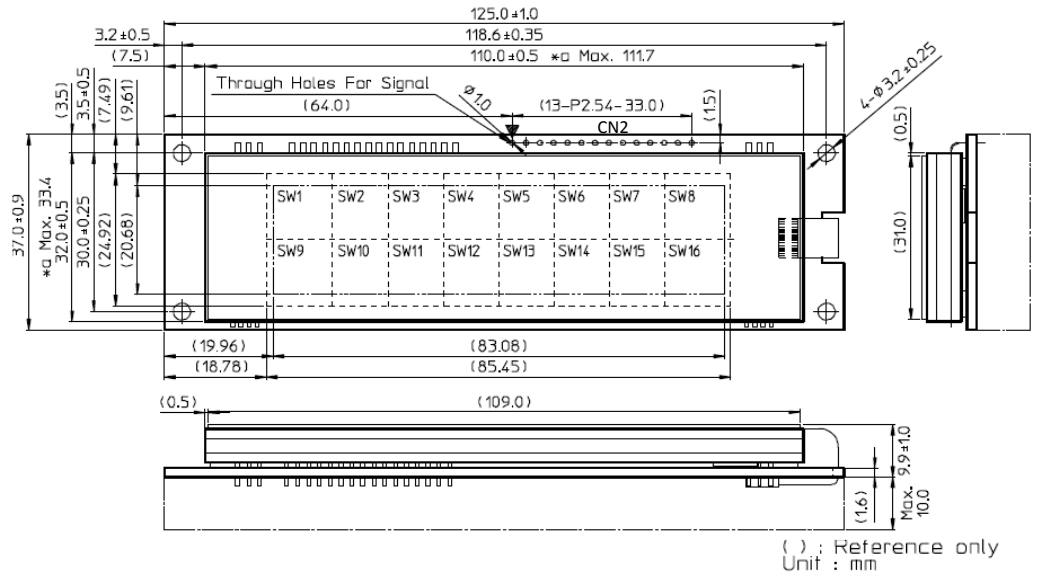
GU256X64C-D903M

SIMPLIFIED DATASHEET

Features

256x64 pixel graphic VFD
Module equips 16(8x2)
Capacitive Touch
Switches.
(Mutual Capacitive Type)

Outline dimensions



Get full specification



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Specification

Electrical Ratings

Note: Logic input I/O is 3.3V C-MOS level.

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

Electrical Characteristic

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

Parameter	Symbo	Min.	Typ.	Max.	Unit	Condition
I2C Logic Input Current	IIH-1	-	-	1	uA	VIN=3.3V
SDA,SCL,/RESET	IIL-1	-	-	-0.5	mA	VIN=0V
I2C Logic Input Voltage	VIH-1	2.7	-	-	VDC	-
SDA,SCL,/RESET	VIL-1	-	-	0.6	VDC	-
I2C Logic Output Voltage S	VOL-1	-	-	0.8	VDC	IOL=2mA
I2C Logic Output Voltage	VOH-2	2.6	-	-	VDC	IOH=-0.5mA
MBUSY,/TRDY	VOL-2	-	-	0.9	VDC	IOL=1mA
Logic Input Current RxD	IIH-2	-	-	1	uA	VIN=3.3V
MOSI,SCK,/CS,HBUSY,/RESET	IIL-2	-	-	-0.5	mA	VIN=0V
Logic Input Voltage RxD	VIH-2	2.7	-	-	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	-	-	0.9	VDC	IOL=1.0mA
Output permission current	IOH/L	-	-	±3	mA	Per port(8 I/O)
Power Supply Current	ICC-1	-	440	570	mADC	All dots turned on
	ICC-2	-	220	285	mADC	All dots turned off
	ICC-3	-	30	40	mADC	Display power off
Power consumption		-	2.2	2.85	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	16,384 (256x64)
Active area (XxY)	83.08mm x 20.68 mm (X x Y)
Size of Dot (XxY)	0.2mm x 0.2mm (X x Y)
Pitch of Dot (XxY)	0.325 mm x 0.325 mm(X x Y)
Weight	approximately 67 g

Environmental Specification

Parameters	
Operating Temperature	-40 ~ +85°C
Storage Temperature	-40 ~ +85°C
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

Host Interface

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

Pin Assignment

CN2: 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

CN2 : 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

CN2 : 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 & lin	5x7 dot font: 36/42digits x 8 lines(Fixed width) 16x16 dot font: 16digits x 4line

Functions

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

