



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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Graphic VFD Module

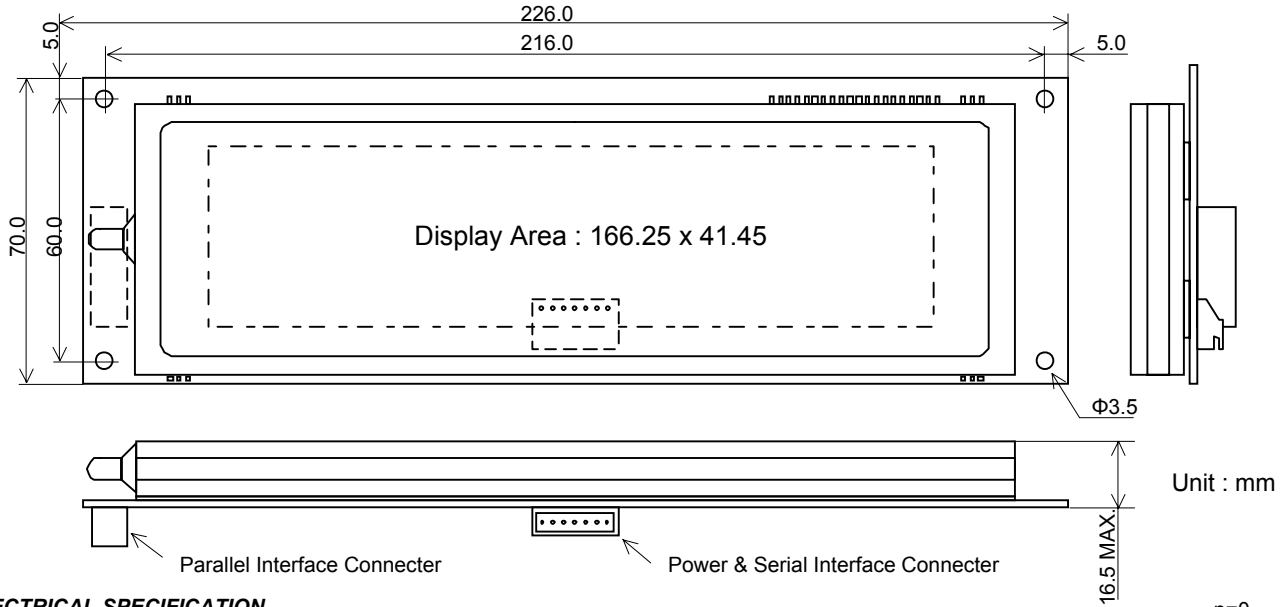
GU256x64F-3900

Ref: MC-021 Mar.03

- Single 24V power supply
- High Brightness Blue Green Display
- Operating Temp -40°C to +70°C
- 6x8, 8x16, 16x32 Font table
- 16x16 Asian(Japanese, Chinese, Korean) for
- RS232C, Parallel, USB(option) Interface
- Easy drawing function
- Power ON/OFF control

- I/O Port controllability
- User window definition and individual control
- High speed Graphic animation ability
- Character & Bitmap image download
- 8 level brightness control

Development Kit Available (GUD-3000)
RS233C cable, Power supply, Sample software



ELECTRICAL SPECIFICATION

Parameter	Symbol	Value
Power Supply Voltage	VCC	24.0VDC
Power Supply Current	ICC	0.28ADC typ.
Logic Hi Input (Parallel)	VIH	0.8VDC min. Vcc max.
Logic Low Input (Parallel)	VIL	0VDV min. 0.2Vcc max.
Logic Hi output (Parallel)	VOH	3.5VDC min. Vcc max.
Logic Low output (Parallel)	VOL	0VDV min. 0.6Vcc max.
Logic Hi Input (RS232)	VIH	3.0VDC min. 15VDC max.
Logic Low Input (RS233)	VIL	-15VDC min. -3VDC max.
Logic Hi output (RS233)	VOH	5.0VDC min.
Logic Low output (RS232)	VOL	-5VDC max.

OPTICAL and ENVIRONMENTAL SPECIFICATIONS

Parameter	Value
PCB Size (X x Y mm)	226.00 x 70.00
Display Area (X x Y mm)	166.25 x 41.45
Dot size / Pitch (X x Y mm)	0.50 / 0.65
Luminance	700 cd/m ² Typ.
Color of Illumination	Blue Green
Operating Temperature	-40°C to +70°C
Operating Humidity	20 to 80 % RH (non condensing)

SOFTWARE COMMANDS - Popular codes, more included

Command	Code
Write Character to Display	20H-FFH
BS, HT, LF, CR, Display Clear	08H, 09H, 0AH, 0DH, 0CH
Initialize Display	1BH
Specify International Font	1BH 52H n
Vertical / Horizontal Scroll Mode	1FH 02H / 1FH 03H
Scroll Display Action	1FH 28H 61H 10H wL wH cL cH s
Display Blink	1FH 28H 61H 11H p t1 t2 c
Font Size Select	1FH 28H 67H 01H m
Font Magnified Display	1FH 28H 67H 40H x y
Brightness Level Setting	1FH 58H n

COMMON FONT	2	3	4	5	6	7
	x0H	x1H	x2H	x3H	x4H	x5H
x0H	0	1	2	3	4	5
x1H	6	7	8	9	A	B
x2H	C	D	E	F	G	H
x3H	I	J	K	L	M	N
x4H	O	P	Q	R	S	T
x5H	U	V	W	X	Y	Z
x6H	[\	^	_	~	
x7H						
x8H						
x9H						
xAH						
xBH						
xCH						
xDH						
xEH						
xFH						

INTERNATIONAL FONT	8	9	A	B	C	D	E	F
	x0H	x1H	x2H	x3H	x4H	x5H	x6H	x7H
x0H	0	1	2	3	4	5	6	7
x1H	8	9	A	B	C	D	E	F
x2H	G	H	I	J	K	L	M	N
x3H	O	P	Q	R	S	T	U	V
x4H	W	X	Y	Z	[\	^	_
x5H	~							
x6H								
x7H								
x8H								
x9H								
xAH								
xBH								
xCH								
xDH								
xEH								
xFH								

6x8, 8x16, 16x32 Font table available.
Also, 4 types of 16x16 Asian font include

Serial Interface (CN1)

Pin	Sig
1	RXD
2	DTR
3	DSR
4	TXD
5	TEST
6	VCC
7	GND

Baud rate: 38,400 or 19,200

Parallel interface (CN5)

Pin	Sig	Pin	Sig
1	D7	2	D6
3	D5	4	D4
5	D3	6	D2
7	D1	8	D0
9	GND	10	WR
11	GND	12	READY
13	GND	14	GND
15	VCC1(24V)	16	VCC1(24V)

Please inquire for full specification.

** Subject to change without notice **