

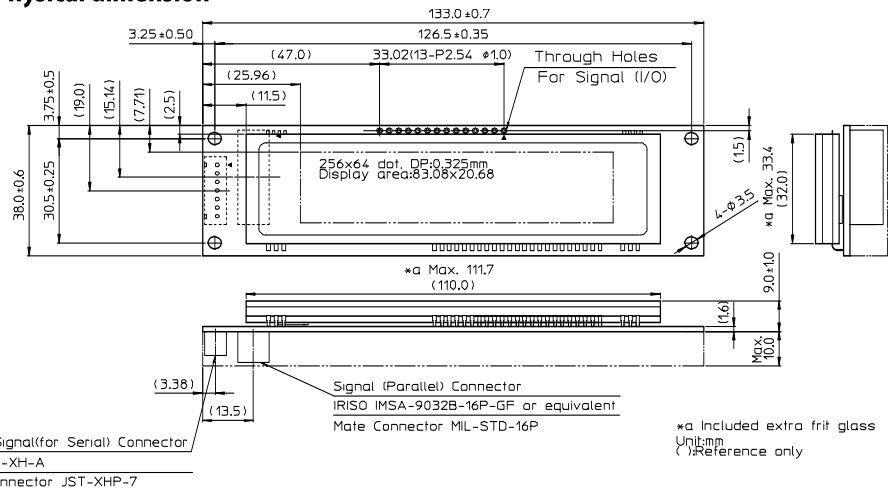
## GU256X64C-3900B

## SIMPLIFIED DATASHEET

## ■ Features

Compact size, high resolution VFD model.  
Recommended for devices where wide space is not available.

## ■ 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               |
|---------------------------------|------------------|--------|------|--------|------|-------------------------|
| <b>Parallel I/F</b>             |                  |        |      |        |      |                         |
| Logic input current             | I <sub>PIH</sub> | -      | -    | 1.0    | μADC | -                       |
| D0-D7, /WR                      | I <sub>PIH</sub> | -      | -    | -200   | μADC | -                       |
| Logic input voltage             | V <sub>PIH</sub> | 0.8VCC | -    | VCC    | VDC  | -                       |
| D0-D7, /WR                      | V <sub>PIH</sub> | 0      | -    | 0.2VCC | VDC  | -                       |
| Logic output voltage            | V <sub>POH</sub> | 3.5    | -    | VCC    | VDC  | I <sub>OH</sub> =-10 μA |
| RDY                             | V <sub>POL</sub> | 0      | -    | 0.6    | VDC  | I <sub>OL</sub> =4mA    |
| <b>RS-232 I/F</b>               |                  |        |      |        |      |                         |
| Logic input voltage             | V <sub>SIH</sub> | 3      | -    | 15     | VDC  | -                       |
| RXD, DSR                        | V <sub>SIL</sub> | -15    | -    | -3     | VDC  | -                       |
| Logic output voltage            | V <sub>SOH</sub> | 5      | -    | -      | VDC  | RL=3KΩ                  |
| RXD, DSR                        | V <sub>SOL</sub> | -      | -    | -5     | VDC  | -                       |
| Logic input Impedance           | R <sub>SIN</sub> | 3      | -    | 7      | KΩ   | -                       |
| <b>General-purpose I/O port</b> |                  |        |      |        |      |                         |
| Power Supply Current 1          | ICC1             | -      | 0.43 | 0.56   | ADC  | All dots ON             |
| Power Supply Current 2          | ICC2             | -      | 0.33 | 0.43   | ADC  | All dots OFF            |
| Power Supply Current 3          | ICC3             | -      | 80   | 120    | mADC | Display power OFF       |
| Power Consumption               |                  | -      | 2.15 | 2.80   | W    | All dots ON             |

## ■ Optical Specifications

| Parameter             |                                                         |
|-----------------------|---------------------------------------------------------|
| Luminance             | 250 cd/m <sup>2</sup> Min. (500 cd/m <sup>2</sup> Typ.) |
| Color of illumination | Green (Blue-Green)                                      |

## ■ Environmental Specifications

| Parameter                 |                                                             |
|---------------------------|-------------------------------------------------------------|
| Operating Temperature     | -40 ~ +85 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 <sup>2</sup> (40G) 9ms X-Y-Z, 3 times each direction |

## ■ Physical Specifications

| Parameter         |                     |
|-------------------|---------------------|
| Number of Dots    | 16,384 (256 x 64)   |
| Display Area      | 83.08 mm x 20.68 mm |
| Dot Size (X x Y)  | 0.2 mm x 0.2 mm     |
| Dot Pitch (X x Y) | 0.325 mm x 0.325 mm |
| Weight            | About 65 g          |

## ■ Interface

Parallel(CMOS), Asynchronous Serial (RS232), I/O port

## ■ Pin Assignment

| 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 settings   |                            |
| etc.                       |                            |



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