

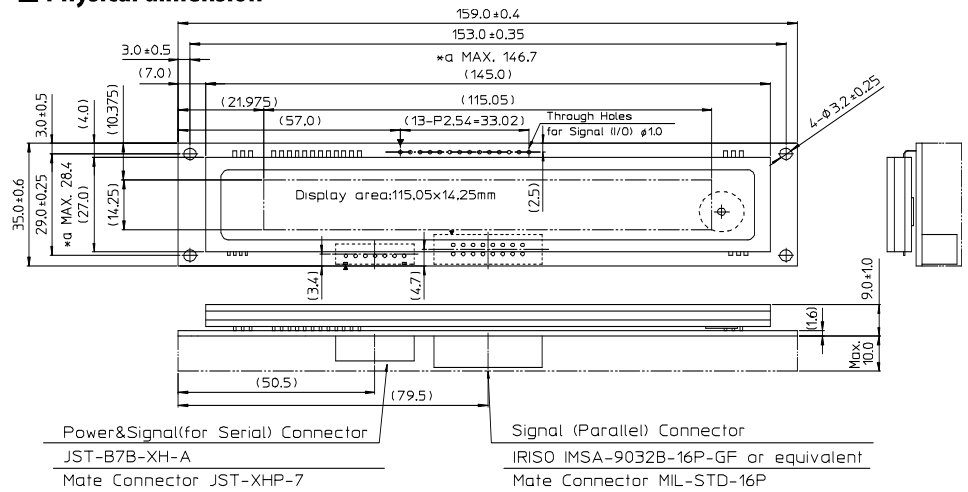
GU256X32D-3900B

SIMPLIFIED DATASHEET

Features

Mid-sized VFD. 32 dots vertically, to accommodate a wide variety of display content, including special characters, images, or graphic information.

Physical dimension



Get full specification



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() Reference only
 Unit:mm
 *a Including extra frit glass

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 I/F | | | | | | |
| Logic input current | I _{pIH} | - | - | 1.0 | μADC | - |
| D0-D7 /WR | I _{pIL} | - | - | -200 | μADC | - |
| Logic input voltage | V _{pIH} | 0.8VCC | - | VCC | VDC | - |
| D0-D7 /WR | V _{pIL} | 0 | - | 0.2VCC | VDC | - |
| Logic output voltage | V _{pOH} | 3.5 | - | VCC | VDC | IOH=-10 μA |
| RDY | V _{pOL} | 0 | - | 0.6 | VDC | IOL=4mA |
| RS-232 I/F | | | | | | |
| Logic input voltage | V _{sIH} | 3 | - | 15 | VDC | - |
| RXD, DSR | V _{sIL} | -15 | - | -3 | VDC | - |
| Logic output voltage | V _{sOH} | 5 | - | - | VDC | RL=3KΩ |
| RXD, DSR | V _{sOL} | - | - | -5 | VDC | - |
| Logic input Impedance | R _{sIN} | 3 | - | 7 | KΩ | - |
| General-purpose I/O port | | | | | | |
| Power Supply Current 1 | ICC1 | - | 450 | 600 | mADC | All dots ON |
| Power Supply Current 2 | ICC2 | - | 350 | 450 | mADC | All dots OFF |
| Power Supply Current 3 | ICC3 | - | 80 | 120 | mADC | Display power OFF |
| Power Consumption | | - | 2.25 | 3.00 | W | All dots ON |

Optical Specifications

| Parameter | Value |
|-----------------------|---|
| Luminance | 350 cd/m ² Min. (600 cd/m ² Typ.) |
| Color of illumination | Green (Blue-Green) |

Environmental Specifications

| Parameter | Value |
|---------------------------|---|
| 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 ² (40G) 9ms X-Y-Z, 3 times each direction |

Physical Specifications

| Parameter | Value |
|-------------------|----------------------|
| Number of Dots | 8,192 (256 x 32) |
| Display Area | 115.05 mm x 14.25 mm |
| Dot Size (X x Y) | 0.3 mm x 0.3 mm |
| Dot Pitch (X x Y) | 0.45 mm x 0.45 mm |
| Weight | About 73 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 | Value |
|-------------------|--|
| 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 4 by 6 x 8 dot ASCII |
| | 21 x 1 by 12 x 24 dot ASCII |
| | 16 x 2 by 16 x 16 dot 2-byte character |
| | 8 x 1 by 32 x 32 dot Japanese |

Functions

| Parameter | Value |
|----------------------------|----------------------------|
| 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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Please confirm product details in the specification.

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