

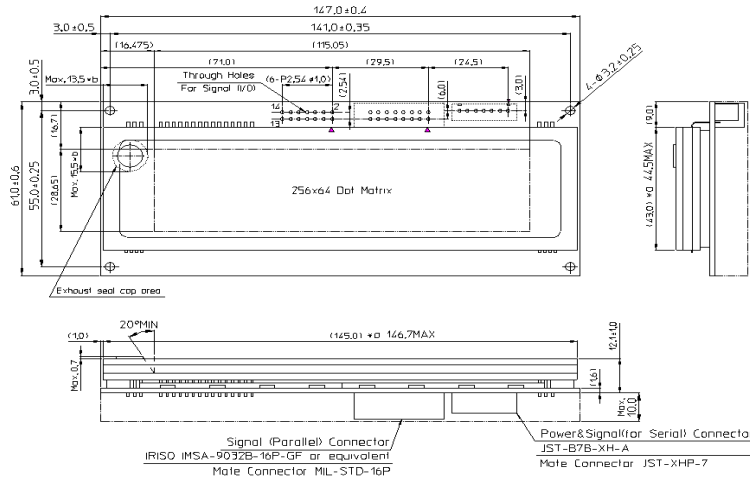
GU256X64D-3990B

SIMPLIFIED DATASHEET

Features

Higher resolution VFD - 256x64 dot model. Can display more information, or finely detailed font patterns. LED back light model.

Physical dimension



①: Reference only +a: Including extra frit glass +b: From face glass edge to exhaust seal cap edge Unit: mm Tolerance: ±0.5

Get full specification



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Specifications

Electrical Ratings

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|----------------------|--------|------|------|------|------|-----------|
| Power supply voltage | VCC1 | 4.75 | 5.00 | 5.25 | VDC | - |

Electrical Characteristics

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Condition |
|--------------------------------|--------|--------|------|--------|------|------------------|
| Parallel IF | | | | | | |
| Logic input current D0-D7 /WR | IpIH | - | - | 1.0 | μADC | - |
| | IpIL | - | - | -200 | μADC | - |
| Logic input voltage D0-D7 /WR | VpIH | 0.8VCC | - | VCC | VDC | - |
| | VpIL | 0 | - | 0.2VCC | VDC | - |
| Logic output voltage RDY | VpOH | 3.5 | - | VCC | VDC | IOH=-10 μA |
| | VpOL | 0 | - | 0.6 | VDC | IOL=4mA |
| RS-232 I/F | | | | | | |
| Logic input voltage RXD, DSR | VsIH | 3 | - | 15 | VDC | - |
| | VsIL | -15 | - | -3 | VDC | - |
| Logic output voltage RXD, DSR | VsOH | 5 | - | - | VDC | RL=3KΩ |
| | VsOL | - | - | -5 | VDC | - |
| Logic input Impedance RXD, DSR | RsiN | 3 | - | 7 | KΩ | - |
| Power Supply Current 1 5V | ICC1-1 | - | 0.85 | 1.1 | ADC | VFD-ON, LED-OFF |
| | ICC1-2 | - | 0.6 | 0.8 | ADC | VFD-OFF, LED-OFF |
| Power Supply Current 2 24V | ICC1-3 | - | 70 | 90 | mADC | Power save mode |
| | ICC1-4 | - | 1.05 | 1.4 | ADC | VFD-ON, LED-ON |
| | ICC1-5 | - | 0.8 | 1.1 | ADC | VFD-OFF, LED-ON |
| Power Consumption | | - | 52.5 | 7.0 | W | VFD-ON, LED-ON |

Optical Specifications

| Parameter | Value |
|-----------------------------|--------------------|
| Luminance | 350 cd/m2 Min. |
| Color of illumination (VFD) | Green (Blue-Green) |
| (LED) | Blue, Red, Green |

Environmental Specifications

| Parameter | Value |
|---------------------------|---|
| Operating Temperature | 0 ~ +50 degrees C (LED ON) / -40 ~ +70 degrees C (LED OFF) |
| 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 | 16,384 (256 x 64) |
| Display Area | 115.05 mm x 28.65 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 | 約142g |

Interface

Parallel(CMOS), Asynchronous Serial (RS232)

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) |

Selectable Font

| Parameter | Value |
|-------------------|---|
| ANK | *ANK(Alphabet, Numeric, 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, 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 | 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 | Variable stored settings |
| LED backlight control | etc. |



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