

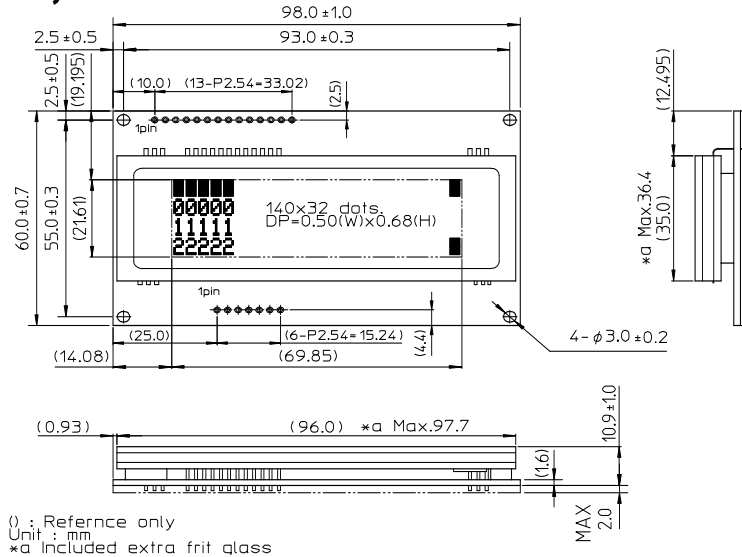
GU140X32F-7000B

SIMPLIFIED DATASHEET

Features

4 line simultaneous display capable wide screen VFD module. Same size and shape as LCD, for easy drop-in replacement. 3.3V power model and reduced-size PCB slim-type models are also available.

Physical dimension



Get full specification



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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 |
|-------------------------|--------|--------|------|--------|------|-------------------|
| 'L' Logic Input Current | | | | | | |
| D0-D7, /WR, /RD, /RESET | IIL1 | - | - | -0.15 | mA | VIN=0V |
| /RESET | IIL2 | - | - | -0.6 | mA | VIN=0V |
| 'H' Logic Input Current | | | | | | |
| D0-D7, /WR, /RD, /RESET | IIH | - | - | 1.0 | μADC | VIN=5V |
| Logic Input Voltage | VIH | 0.8VCC | - | VCC | VDC | - |
| D0-D7, /WR, /RD, /RESET | VIL | 0 | - | 0.2VCC | VDC | - |
| Logic Output Voltage | VOH | 3.8 | - | VCC | VDC | IOH=-1.5mA |
| D7(Busy flag), PBUSY | VOL | 0 | - | 0.6 | VDC | IOL=1.6mA |
| Logic input resistance | | | | | | |
| SIN | RIN | 3 | - | - | KΩ | - |
| Logic Input Voltage | VIH | 3.0 | - | +15 | VDC | - |
| SIN | VIL | -15 | - | 0.5 | VDC | - |
| Logic Output Voltage | VOH | 4.0 | - | VCC | VDC | RL=3KΩ |
| SBUSY | VOL | 0 | - | 0.5 | VDC | RL=3KΩ |
| Power Supply Current 1 | ICC-1 | - | 400 | 520 | mADC | All dots ON |
| Power Supply Current 2 | ICC-2 | - | 330 | 430 | mADC | All dots OFF |
| Power Supply Current 3 | ICC-3 | - | 35 | 45 | mADC | Display power OFF |
| Power Consumption | | - | 2.0 | 2.6 | W | All dots ON |

Optical Specifications

| Parameter | Value |
|-----------------------|---|
| Luminance | 350 cd/m ² Min. (700 cd/m ² Typ.) |
| Color of illumination | Green (Blue-Green) |

Environmental Specifications

| Parameter | Value |
|---------------------------|---|
| Operating Temperature | -40 ~ +85 degrees celsius |
| Storage Temperature | -60 ~ +85 degrees (Under 168 hours)/-40 ~ +85 degrees (Or more) |
| 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 |

Physical Specifications

| Parameter | Value |
|-------------------|--------------------|
| Number of Dots | 4,480 (140 x 32) |
| Display Area | 69.85mm x 21.61 mm |
| Dot Size (X x Y) | 0.35 mm x 0.53 mm |
| Dot Pitch (X x Y) | 0.50 mm x 0.68 mm |
| Weight | About 60 g |

Interface

Parallel(CMOS), Asynchronous Serial (RS232)

Pin Assignment (Parallel)

| Pin No. | Signal | Pin No. | Signal |
|---------|--------|---------|-----------|
| 1 | GND | 8 | D1 |
| 2 | VCC | 9 | D2 |
| 3 | NC | 10 | D3 |
| 4 | RS | 11 | D4 |
| 5 | /WR | 12 | D5 |
| 6 | /RD | 13 | D6 |
| 7 | D0 | 14 | D7(PBUSY) |

(Asynchronous Serial)

| Pin No. | Signal | Baud Rate Setting |
|---------|--------|---------------------|
| 1 | VCC | 9600bps |
| 2 | SIN | 19200bps |
| 3 | GND | 38400bps* |
| 4 | SBUSY | 115200bps |
| 5 | NC | (*:Default setting) |
| 6 | /RESET | |
| 7 | NC | |

Selectable Font

| Parameter | Value | *ANK(Alphabet, Numeric, Kana) |
|---------------------|----------------------------------|-------------------------------|
| Character font type | 5 x 7 | ANK, International |
| Character width | Fixed/Proportional | character format 1&2 |
| Character numbers | 20 x 4 by 5 x 7 dot ASCII | |
| | 23 x 4 by 5 x 7 dot Proportional | |

Functions

| Parameter | Value |
|--------------------------------------|-------|
| Control command | |
| Scroll display action | |
| Proportional Font function | |
| User-Windows function | |
| AND/OR/XOR Mixture display | |
| Reverse display | |
| Dot unit real-time bit image display | |
| Download character function | |
| Font Magnification function | |
| etc. | |



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