

Graphic VFD Module

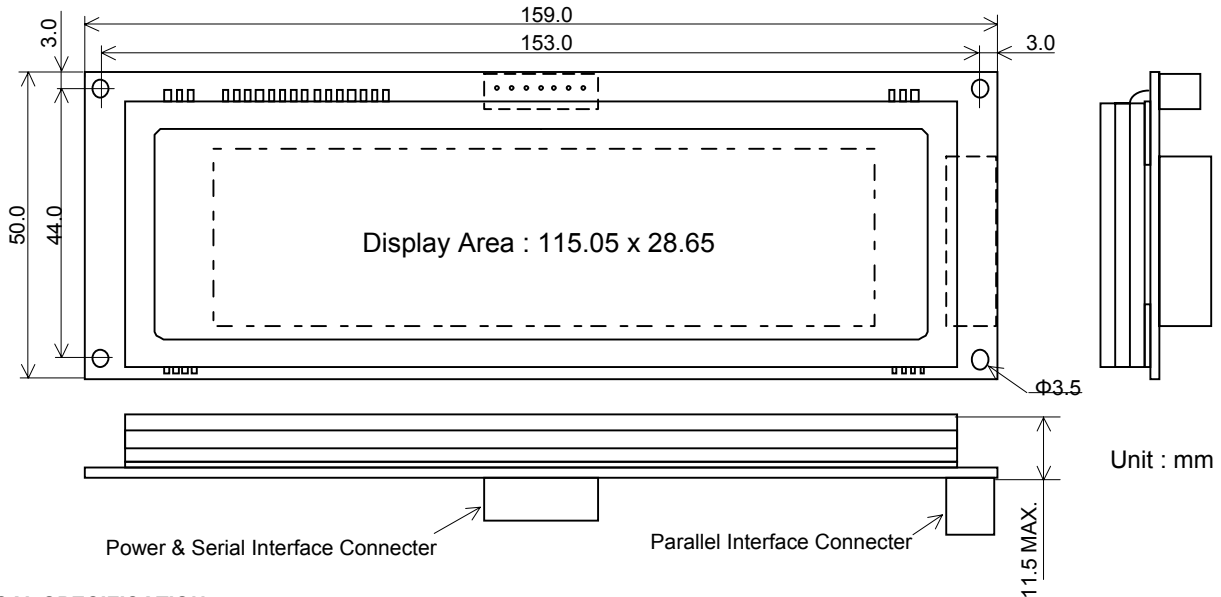
GU256x64D-3900

Ref: MC-019 Mar.03

- Single 5V 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)
RS232C cable, Power supply, Sample software



ELECTRICAL SPECIFICATION

| Parameter | Symbol | Value |
|-----------------------------|--------|------------------------|
| Power Supply Voltage | VCC | 5.0VDC |
| Power Supply Current | ICC | 0.85ADC 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) | 159.00 x 50.00 |
| Display Area (X x Y mm) | 115.05 x 28.65 |
| Dot size / Pitch (X x Y mm) | 0.30 / 0.45 |
| Luminance | 800 cd/m ² Typ. |
| Color of Illumination | Blue Green |
| Operating Temperature | -40°C to +85°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 |

| | 2 x H | 3 x H | 4 x H | 5 x H | 6 x H | 7 x H |
|-----|-------|-------|-------|-------|-------|-------|
| 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 | ~ | ` | ` | ` | ` | ` |

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(5V) | 16 | VCC1(5V) |

Please inquire for full specification.

** Subject to change without notice **