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Graphic VFD Module

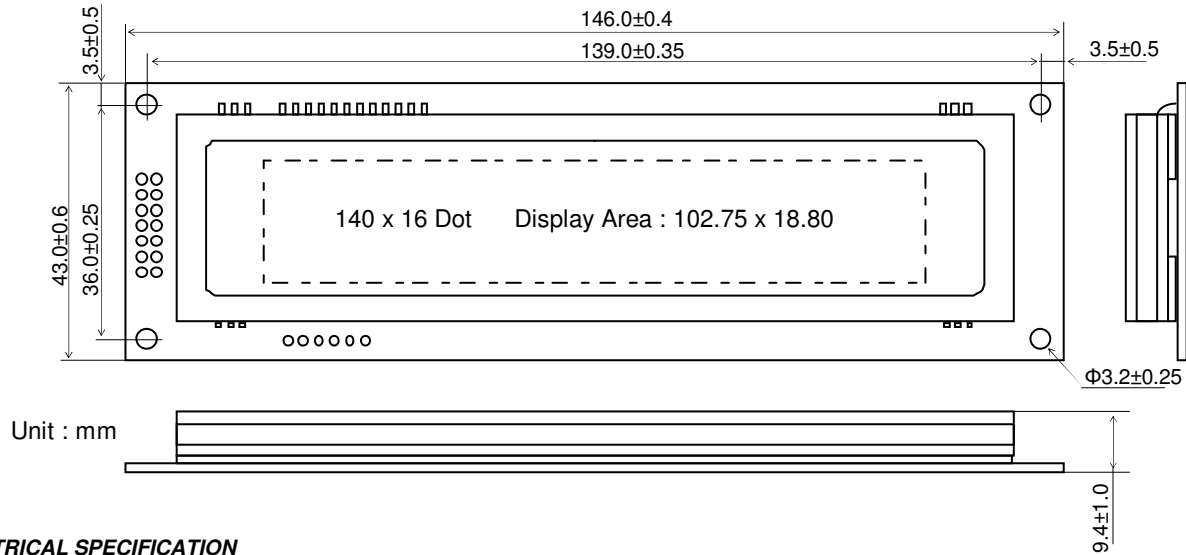
GU140X16J-7000

Ref: MC-007 Dec.12, 06

- Character Graphic, Transformerless display
- Size compatible with LCD Module (U-Version)
- Single 5V power supply
- High Brightness Blue Green display
- Operating temp -40°C to +85°C
- Proportional and scalable fonts
- Screen saver & window definition function
- 8 level brightness control function
- 8 bit Parallel, RS232C serial Interface

The module includes the Vacuum Fluorescent Display glass, driver and micro-controller Ics with refresh RAM, character generator and interface logic. This module have 8 bit parallel & RS232C serial interface. The module can simultaneously display graphic pattern and / or characters on screen.

Sample software available



ELECTRICAL SPECIFICATION

| Parameter | Symbol | Value |
|-----------------------------|--------|-------------------------|
| Power Supply Voltage | VCC | 5.0VDC Typ. |
| Power Supply Current | ICC | 500mADC Typ. |
| Logic Hi Input (Parallel) | VIH | 0.8VCC min. VCC max. |
| Logic Low Input (Parallel) | VIL | 0VDC min. 0.2VDC max. |
| Logic HI output (Parallel) | VOH | 3.5VDC min. 3.8VCC Max. |
| Logic Low output (Parallel) | VOL | 0VDC min. 0.6VDC max. |
| Logic Hi Input (RS232) | VIH | 3.0VDC min. +15VDC max. |
| Logic Low Input (RS232) | VIL | -15VDC min. 0.5VDC max. |
| Logic Hi output (RS232) | VOH | 4.0VDC min. VCC max. |
| Logic Low output (RS232) | VOL | 0VDC min. 0.5VDC max. |

OPTICAL and ENVIRONMENTAL SPECIFICATIONS

| Parameter | Value |
|-----------------------------|-------------------------------------|
| PCB Size (X x Y mm) | 146.00 x 43.00 |
| Display Area (X x Y mm) | 102.75 x 18.80 |
| Dot size / Pitch (X x Y mm) | 0.59 x 1.03 / 0.74 x 1.19 |
| Luminance | 1,000 cd/m ² Typ. |
| Color of Illumination | Blue Green (Filter for more colors) |
| 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 |
| Cursor Set | 1FH 24H xL xH yL yH |
| Initialize Display | 1BH 40H |
| Specify International Font | 1BH 52H n |
| Vertical / Horizontal Scroll Mode | 1FH 02H / 1FH 03H |
| Screen Saver | 1FH 28H 61H 40H p |
| Display Blink | 1FH 28H 61H 11H p t1 t2 c |
| Bit Image Display Group | 1FH 28H 66H 11H xL xH |
| Font Magnified Display | 1FH 28H 67H 40H x y |
| Brightness Level Setting | 1FH 58H n |

COMMON FONT

| | 2 x H | 3 x H | 4 x H | 5 x H | 6 x H | 7 x H |
|-----|-------|-------|-------|-------|-------|-------|
| x0H | 00 | 01 | 02 | 03 | 04 | 05 |
| x1H | 10 | 11 | 12 | 13 | 14 | 15 |
| x2H | 20 | 21 | 22 | 23 | 24 | 25 |
| x3H | 30 | 31 | 32 | 33 | 34 | 35 |
| x4H | 40 | 41 | 42 | 43 | 44 | 45 |
| x5H | 50 | 51 | 52 | 53 | 54 | 55 |
| x6H | 60 | 61 | 62 | 63 | 64 | 65 |
| x7H | 70 | 71 | 72 | 73 | 74 | 75 |
| x8H | 80 | 81 | 82 | 83 | 84 | 85 |
| x9H | 90 | 91 | 92 | 93 | 94 | 95 |
| xAH | A0 | A1 | A2 | A3 | A4 | A5 |
| xBH | B0 | B1 | B2 | B3 | B4 | B5 |
| xCH | C0 | C1 | C2 | C3 | C4 | C5 |
| xDH | D0 | D1 | D2 | D3 | D4 | D5 |
| xEH | E0 | E1 | E2 | E3 | E4 | E5 |
| xFH | F0 | F1 | F2 | F3 | F4 | F5 |

INTERNATIONAL FONTS

| | 8 x H | 9 x H | A x H | B x H | C x H | D x H | E x H | F x H |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|
| x0H | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| x1H | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| x2H | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| x3H | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |
| x4H | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 |
| x5H | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |
| x6H | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 |
| x7H | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 |
| x8H | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 |
| x9H | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 |
| xAH | A0 | A1 | A2 | A3 | A4 | A5 | A6 | A7 |
| xBH | B0 | B1 | B2 | B3 | B4 | B5 | B6 | B7 |
| xCH | C0 | C1 | C2 | C3 | C4 | C5 | C6 | C7 |
| xDH | D0 | D1 | D2 | D3 | D4 | D5 | D6 | D7 |
| xEH | E0 | E1 | E2 | E3 | E4 | E5 | E6 | E7 |
| xFH | F0 | F1 | F2 | F3 | F4 | F5 | F6 | F7 |

n=0
n=19

RS232C Serial Interface - CN2

| Pin | Asyn. Sig |
|-----|-----------|
| 1 | VCC |
| 2 | SIN |
| 3 | GND |
| 4 | SBUSY |
| 5 | NC |
| 6 | /RESET |

Parallel interface- CN1

| Pin | Sig | Pin | Sig |
|-----|-----|-----|-----|
| 1 | GND | 2 | Vcc |
| 3 | NC | 4 | RS |
| 5 | /W | 6 | /RD |
| 7 | D0 | 8 | D1 |
| 9 | D2 | 10 | D3 |
| 11 | D4 | 12 | D5 |
| 13 | D6 | 14 | D7 |

Please inquire for full specification.

** Subject to change without notice **