

# 3000 SERIES

[http://www.noritake-elec.com/3000\\_series.htm](http://www.noritake-elec.com/3000_series.htm)



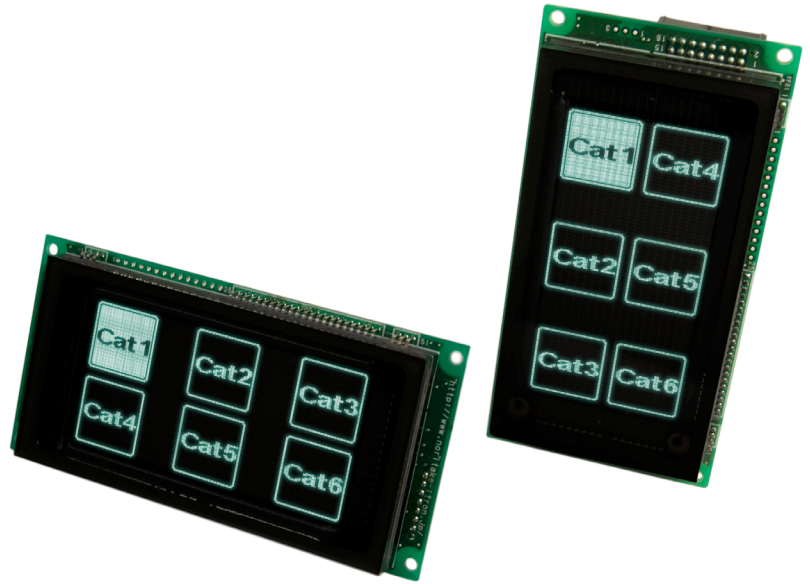
ISO 9001 and ISO 14000 Certified

## Dot matrix display

- Vibrant and bright display.
- Display characters anywhere on the screen.
- Display bitmap images.
- Invert screen.
- Separate into 4 independently controlled windows.

## Use it vertically or horizontally

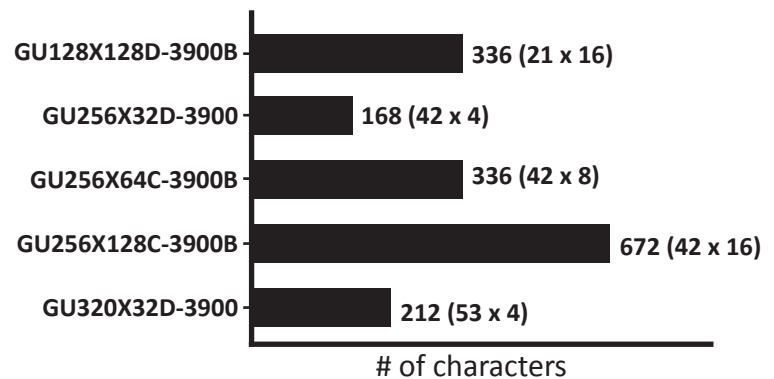
- Display vertically or horizontally using bitmap images.
- Icon or text position can be positioned to match the membrane switch.



## More characters

3000 Series offers VFD modules capable of displaying many characters.

- GU128X128D-3900B can display 336 (21 x 16) characters.
- GU256X32D-3900 can display 168 (42 x 4) characters.
- GU256X64C-3900B can display 336 (42 x 8) characters.
- GU256X128C-3900B can display 672 (42 x 16) characters.
- GU320X32D-3900 can display 212 (53 x 4) characters.

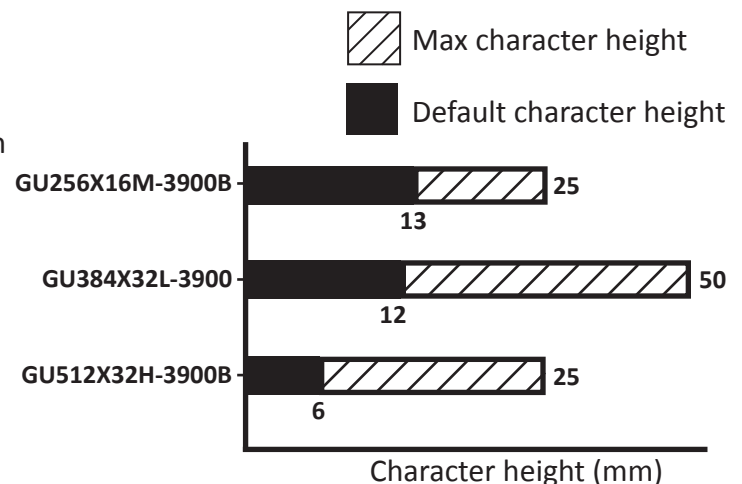


## Large characters

3000 Series offers VFD modules with larger characters which can be read from further away.

- GU256X16M-3900B, 13 mm character height.
- GU384X32L-3900, 12 mm character height.
- GU512X32H-3900B, 6 mm character height.

3000 Series has multiple font sizes and display even larger characters.

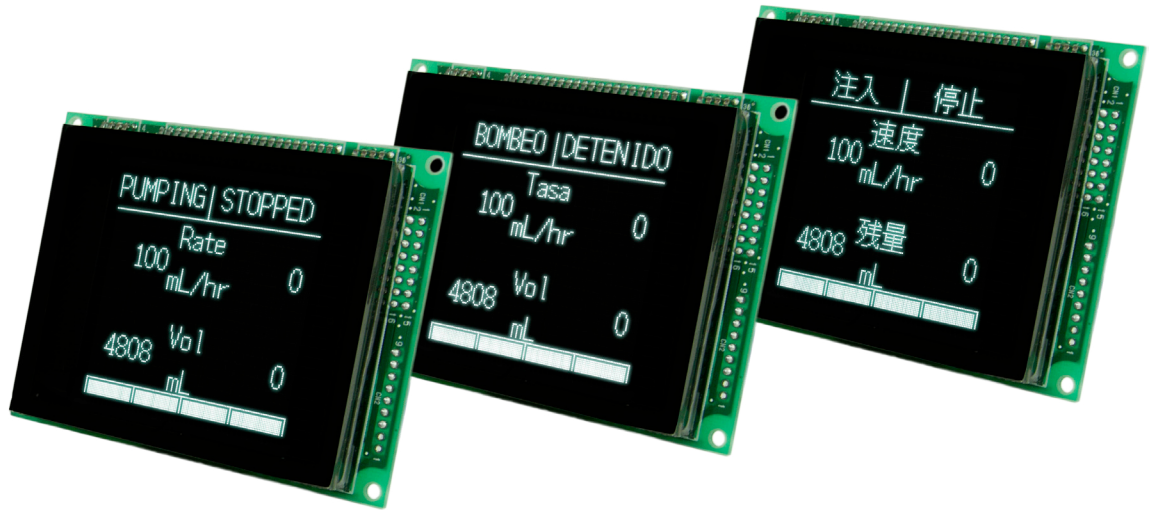


## More features

- GPIO (General purpose I/O)
- Flash memory.
- Built-in ASCII and international font tables.
- Built-in Japanese, Korean and Chinese font tables.
- LED backlight model GU512X32H-3940  
Emits red, green and blue color with 16 brightness level settings each.



| Included font tables |
|----------------------|
| ASCII                |
| Extended ASCII       |
| International        |
| Japanese             |
| Korean               |
| Simplified Chinese   |
| Traditional Chinese  |



| Part Number          | Number of Characters | Display Bitmap | Character Height (mm) | Display Size (mm) | PCB Size (mm) | Interface                           | Power Supply Typical         | Notes                                      |
|----------------------|----------------------|----------------|-----------------------|-------------------|---------------|-------------------------------------|------------------------------|--------------------------------------------|
| New GU128X128D-3900B | 21 x 16              | 128 x 128      | 3                     | 51.1 x 51.1       | 96.5 x 75.0   | CMOS parallel<br>RS232 async serial | 5V / 700 mA                  | GPIO (General purpose I/O)<br>Flash memory |
| New GU256X16M-3900B  | 42 x 2               | 256 x 16       | 13                    | 307.0 x 25.4      | 372.0 x 49.0  |                                     | 5V / 50 mA<br>24V / 240 mA   |                                            |
| GU256X16M-3900       |                      |                |                       |                   |               |                                     | 5V / 80 mA<br>24V / 270 mA   |                                            |
| GU256X32D-3900       | 42 x 4               | 256 x 32       | 3                     | 115.1 x 14.3      | 159.0 x 35.0  |                                     | 5V / 450 mA                  |                                            |
| New GU256X64C-3900B  | 42 x 8               | 256 x 64       | 2                     | 83.1 x 20.7       | 133.0 x 38.0  |                                     | 5V / 430 mA                  |                                            |
| GU256X64C-3900       |                      |                | 3                     | 115.1 x 28.7      | 159.0 x 50.0  |                                     | 5V / 850 mA                  |                                            |
| New GU256X64D-3900B  |                      |                |                       |                   |               |                                     | 5V / 1160 mA                 |                                            |
| GU256X64D-3900       |                      |                | 4                     | 140.7 x 35.1      | 188.0 x 62.0  |                                     |                              |                                            |
| New GU256X64E-3900B  |                      |                |                       |                   |               |                                     |                              |                                            |
| GU256X64E-3900       |                      |                | 5                     | 166.3 x 41.5      | 226.0 x 70.0  |                                     |                              |                                            |
| GU256X64F-3101       | USB                  | 24V / 280 mA   |                       |                   |               | USB<br>Flash memory                 |                              |                                            |
| GU256X64F-3900       | 42 x 16              | 256 x 128      | 3                     | 83.1 x 41.5       | 131.0 x 66.0  | CMOS parallel<br>RS232 async serial | 5V / 850 mA                  | GPIO<br>Flash memory                       |
| New GU256X128C-3900B |                      |                |                       |                   |               |                                     | 5V / 1200 mA                 |                                            |
| New GU256X128D-3900B |                      |                |                       |                   |               |                                     | 5V / 100 mA<br>12V / 1000 mA |                                            |
| GU256X128E-3900      |                      |                | 4                     | 140.7 x 70.3      | 214.0 x 110.0 |                                     | 5V / 100 mA<br>24V / 380 mA  |                                            |
| GU256X128E-3910      |                      |                |                       |                   |               |                                     | 5V / 480 mA                  |                                            |
| GU320X32D-3900       |                      |                |                       |                   |               |                                     | 5V / 60 mA<br>24V / 600 mA   |                                            |
| New GU384X32L-3900B  | 64 x 4               | 384 x 32       | 12                    | 468.2 x 50.3      | 551.0 x 91.0  |                                     | 5V / 80 mA<br>24V / 650 mA   |                                            |
| GU384X32L-3900       |                      |                |                       |                   |               |                                     | 5V / 50 mA<br>24V / 240 mA   |                                            |
| New GU512X32H-3900B  | 85 x 4               | 512 x 32       | 6                     | 307.0 x 25.4      | 372.0 x 49.0  |                                     | 5V / 80 mA<br>24V / 270 mA   |                                            |
| GU512X32H-3900       |                      |                |                       |                   |               |                                     | 5V / 110 mA<br>24V / 250 mA  | LED backlight<br>Flash memory              |
| GU512X32H-3940       |                      |                |                       |                   |               |                                     |                              |                                            |

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