

# 3000 SERIES

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



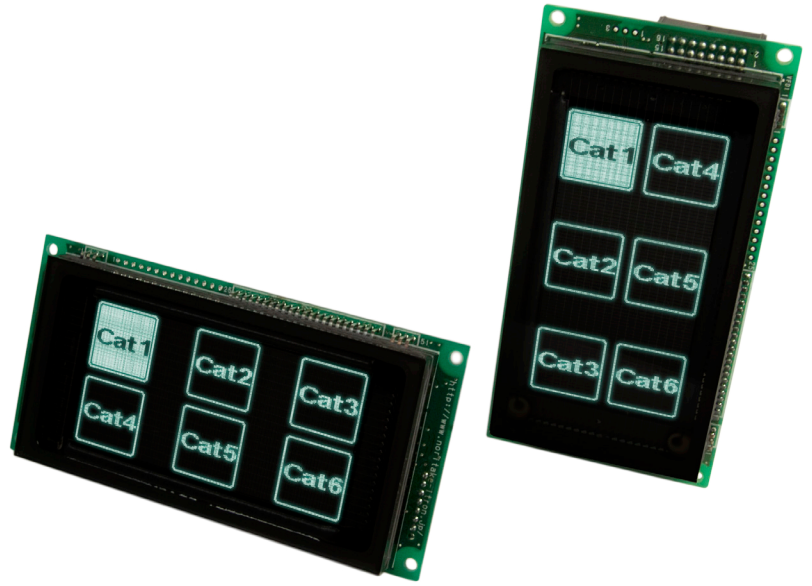
ISO 9001 and ISO 14000 Certified

## 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

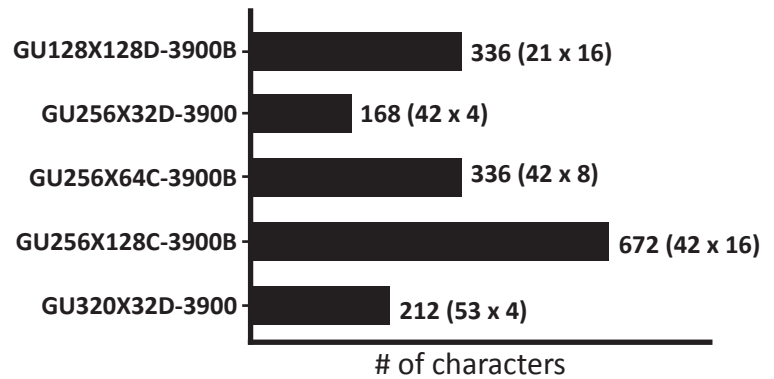
- Display vertically or horizontally using bitmap images.
- Icon or text position can be positioned to match the membrane switch.



## 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.

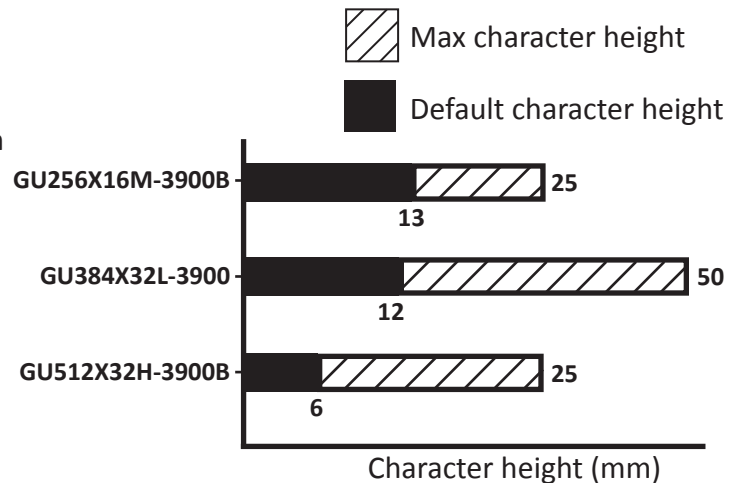


## Large characters

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.

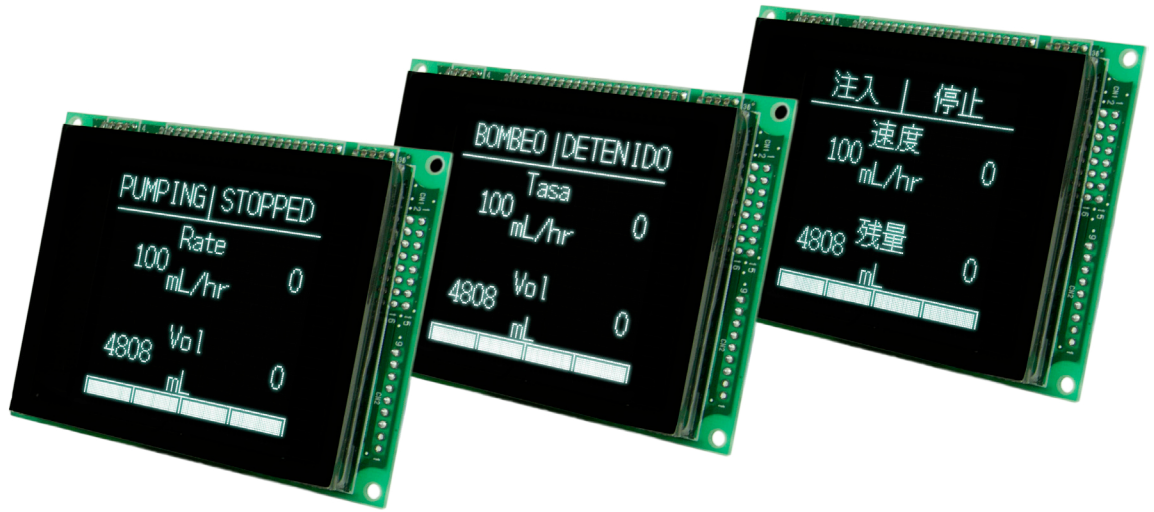


## More features

- 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 RS232 async serial	5V / 700 mA	GPIO (General purpose I/O) 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 24V / 240 mA					
GU256X16M-3900							5V / 80 mA 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												
New GU256X64D-3900B							3		115.1 x 28.7	159.0 x 50.0	5V / 850 mA	
GU256X64D-3900												
New GU256X64E-3900B	42 x 8	256 x 64	4	140.7 x 35.1	188.0 x 62.0		5V / 1160 mA					
GU256X64E-3900												
GU256X64F-3101						5	166.3 x 41.5	226.0 x 70.0	USB	24V / 280 mA	USB Flash memory	
GU256X64F-3900	42 x 16	256 x 128	3	83.1 x 41.5	131.0 x 66.0	CMOS parallel RS232 async serial	5V / 850 mA	GPIO Flash memory				
New GU256X128C-3900B							3		115.1 x 57.5	170.0 x 90.0	5V / 1200 mA	
New GU256X128D-3900B							4		140.7 x 70.3	214.0 x 110.0	5V / 100 mA 12V / 1000 mA	
GU256X128E-3900											5V / 100 mA 24V / 380 mA	
GU256X128E-3910						5V / 100 mA 24V / 380 mA						
GU320X32D-3900	53 x 4	320 x 32	3	143.9 x 14.3	189.0 x 33.0	5V / 480 mA						
New GU384X32L-3900B	64 x 4	384 x 32	12	468.2 x 50.3	551.0 x 91.0	5V / 60 mA 24V / 600 mA						
GU384X32L-3900						5V / 80 mA 24V / 650 mA						
New GU512X32H-3900B	85 x 4	512 x 32	6	307.0 x 25.4	372.0 x 49.0	5V / 50 mA 24V / 240 mA						
GU512X32H-3900						5V / 80 mA 24V / 270 mA						
GU512X32H-3940						5V / 110 mA 24V / 250 mA	LED backlight Flash memory					

**Noritake Co., Inc.**  
**Electronics Division Headquarter**  
 2635 Clearbrook Drive  
 Arlington Heights, IL 60005  
 Toll free: (800) 779 - 5846  
 Phone: (847) 439 - 9020  
 support.ele@noritake.com  
**www.noritake-elec.com**

**East Coast**  
**New Jersey Branch**  
 15-22 Fair Lawn Ave.  
 Fair Lawn, NJ 07410  
 Toll free: (888) 296 - 3423  
 Phone: (201) 475 - 5200  
 Fax: (201) 796 - 2269

**Midwest, Canada, and Mexico**  
**Chicago Branch**  
 2635 Clearbrook Dr.  
 Arlington Heights, IL 60005  
 Toll free: (800) 779 - 5846  
 Phone: (847) 439 - 9020  
 Fax: (847) 593 - 2285

**West Coast**  
**Los Angeles Branch**  
 21081 S. Western Ave. Ste 180  
 Torrance, CA 90501  
 Toll free: (888) 795 - 3423  
 Phone: (310) 320 - 1700  
 Fax: (310) 320 - 2900

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