

## Intelligent LCD Feature Comparison

|   | CFA632                         | CFA634   | CFA533                          | CFA631                            | CFA633                          | CFA635  | CFA735   | CFA835   | XES635  |
|---|--------------------------------|--|---------------------------------|-----------------------------------|---------------------------------|---|--|--|---|
| Feature   | CRYSTALFONTZ CFA632 YFH        | CRYSTALFONTZ AMERICA, INC. **** CFA634-TFH **** www.crystalfontz.com | CFA-533 Series crystalfontz.com | Crystalfontz 631<br>USB: 2h4,u3v1 | CFA-633 Series crystalfontz.com | Crystalfontz CFA-635  Crystalfontz CFA-635  LEDs in 5%" bay  www.crystalfontz.com | Crystalfontz CFA-735 Using CFA-635 Emulation Mode www.crystalfontz.com | Crystalfontz America CFA835 www.crystalfontz.com | Crystalfontz CFA-635  Crystalfontz CFA-635  LEDs in 5%" bay  WWW.crystalfontz.com |
| Host Interfaces                                   | USB, Serial,<br>RS232 I2C, SPI | USB, Serial,<br>RS232,I2C, SPI                                       | USB, Serial,<br>RS232,I2C       | USB, I2C                          | USB, Serial, RS232              | USB, Serial, RS232  | USB, Serial, RS232   | USB, Serial, RS232, I2C, SPI                     | USB   |
| Layout & LCD<br>Type                              | 16x2 Character                 | 20x4 Character   | 16x2 Character                  | 20x2 Character                    | 16x2 Character                  | 20x4 Character  | 20x4 Character   | 244x68 Pixel Graphic w/Grayscale                 | 20x4 Character  |
| Voltage Supply                                    | 5.0v                           | 5.0v   | 3.3-5.0v                        | 5.0v                              | 5.0v                            | 5.0v  | 3.3-5.5v   | 3.3-5.5v   | 5.0v  |
| Color Options                                     | 2                              | 4  | 3                               | 2                                 | 4                               | 3   | 3  | 3  | 3   |
| Keypad  | No 🗱                           | No 🗱   | 6-Buttons                       | 4-Buttons                         | 6-Buttons                       | 6-Buttons   | 6-Buttons  | 6-Buttons  | 6-Buttons   |
| Packet Based<br>Communication<br>w/error checking | No 🗱                           | No 🗱   | Yes                             | Yes                               | Yes                             | Yes   | Yes  | Yes  | Yes   |
| User Controlled GPIO's with PWM                   | 0                              | 0  | 5                               | 5                                 | 5                               | 5   | 5  | 13   | 0   |
| User non-volatile<br>Memory                       | No 🗱                           | No 🗱   | 16-Bytes                        | 16-Bytes                          | 16-Bytes                        | 16-Bytes  | 16-Bytes   | 124-Bytes  | 16-Bytes  |
| PC ATX Power<br>Control                           | No 🗱                           | No 🗱   | Yes                             | Yes                               | Yes                             | Yes   | Yes  | Yes  | No 🗱  |
| * Temperature<br>Monitoring                       | No 🗱                           | No 🗱   | 32 Sensors                      | 32 Sensors                        | 32 Sensors                      | 16 w/FBSCAB   | 16 w/FBSCAB  | 128 w/8 FBSCABs                                  | No 🗱  |
| Drive Bay<br>Mount Available                      | No 🗱                           | No 🗱   | Yes                             | Yes                               | Yes                             | Yes   | Yes  | Yes  | No 🗱  |
| 1RU (Rack Unit)<br>Compatible                     | No 🗱                           | No 🗱   | Yes                             | Yes                               | Yes                             | Yes   | Yes  | Yes  | No 🗱  |
| 12v Fan Control<br>/ Monitoring                   | No 🗱                           | No 🗱   | No 🗱                            | 4 w/SCAB                          | 4                               | 4 w/FBSCAB  | 4 w/FBSCAB   | 32 w/8 FBSCABs                                   | No 🗱  |
| Bi-Color Dimmable<br>Status LEDs                  | No 🗱                           | No 🗱   | No 🗱                            | No 🗱                              | No                              | Yes   | Yes  | Yes  | Yes   |
| User Upgradable<br>Firmware                       | No 🗱                           | No 🎉   | No 🗱                            | No 🗱                              | No                              | Yes   | Yes  | Yes  | Yes   |
| Custom Graphics<br>Support                        | No 🗱                           | No 🗱   | No 🎉                            | No 🎉                              | No                              | No  | No   | Yes  | No 🍑  |
| MicroSD Support for Files & Graphics              | No 🗱                           | No 🎉   | No 🎉                            | No 🎉                              | No 🗱                            | No 🎉  | No 🎉   | Yes  | No 🎉  |
| Analog Voltage<br>Inputs (ADC)                    | No 🗱                           | No 🍑   | No 🎉                            | No 🎉                              | No 🗱                            | No  | No 🎉   | 2  | No 🍑  |
| Closed-Loop Fan<br>Control                        | No 🗱                           | No 🍑   | No 🎉                            | No 🎉                              | No                              | No  | No   | Yes  | No 🎉  |
| Steel Enclosure                                   | No 🗱                           | No 🍑   | No                              | No 🎉                              | No                              | No  | No   | No   | Yes   |

## **Expansion Modules**



System Cooling Accessory Board (SCAB)

Additional "System Cooling Accessory Board" for the CFA631 module.

Speed-control and RPM monitor up to four PC-style 12V 3-pin fans (extension cables are available).

Monitor up to 32 1-Wire temperature sensors with 0.5°C accuracy.

Four GPIO lines on the SCAB allow:
ATX power supply control functionality, using the display module keypad buttons as "power" and "reset" buttons for a host system.
Hardware watchdog can reset the host in the case of host software failure. Five extra user/host controllable 5V GPIO's with PWM capability.

The SCAB with a CFA631 (which has a built-in bracket) fit nicely in a 1U rack mount case (37 mm overall height).



FB System Cooling Accessory Board (FBSCAB)

Additional "FB System Cooling Accessory Board" for the CFA635, CFA735 and CFA835 modules.

Speed-control and RPM monitor up to four PC-style 12V 3-pin fans (extension cables are available).

Monitor up to 16 1-Wire temperature sensors with 0.5°C accuracy.

Daisy-chain up to eight FBSCAB modules with a single CFA835 to control/monitor up to 32 fans, and 128 temperature sensors.

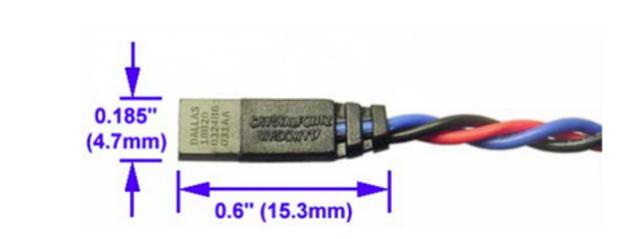
Five extra user/host controllable 5V GPIO's with PWM capability.

The CFA-FBSCAB with a CFA735, CFA835, or CFA635 fit nicely in a 1U rack mount case (37 mm overall height) using our optional mounting bracket.

## \* Temperature Monitoring

Temperature monitoring requires the use of a temperature sensor that is not included with the display modules, however they can be purchased separately or customized to include them.

Our part number for the 1-Wire temperature sensor is WR-DOW-Y17.



## Contact Us

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