





## Intelligent LCD Feature Comparison

	CFA632	CFA634	CFA533	CFA631	CFA633	CFA635	CFA735	CFA835	XES635
<b>Feature</b>									
<b>Host Interfaces</b>	USB, Serial, RS232 I2C, SPI	USB, Serial, RS232, I2C, SPI	USB, Serial, RS232, I2C	USB, I2C	USB, Serial, RS232	USB, Serial, RS232	USB, Serial, RS232	USB, Serial, RS232, I2C, SPI	USB
<b>Layout &amp; LCD Type</b>	16x2 Character	20x4 Character	16x2 Character	20x2 Character	16x2 Character	20x4 Character	20x4 Character	244x68 Pixel Graphic w/Grayscale	20x4 Character
<b>Voltage Supply</b>	5.0v	5.0v	3.3-5.0v	5.0v	5.0v	5.0v	3.3-5.5v	3.3-5.5v	5.0v
<b>Color Options</b>	2	4	3	2	4	3	3	3	3
<b>Keypad</b>	No 	No 	6-Buttons 	4-Buttons 	6-Buttons 	6-Buttons 	6-Buttons 	6-Buttons 	6-Buttons 
<b>Packet Based Communication w/error checking</b>	No 	No 	Yes 	Yes 	Yes 	Yes 	Yes 	Yes 	Yes 
<b>User Controlled GPIO's with PWM</b>	0 	0 	5 	5 	5 	5 	5 	13 	0 
<b>User non-volatile Memory</b>	No 	No 	16-Bytes 	16-Bytes 	16-Bytes 	16-Bytes 	16-Bytes 	124-Bytes 	16-Bytes 
<b>PC ATX Power Control</b>	No 	No 	Yes 	Yes 	Yes 	Yes 	Yes 	Yes 	No 
<b>* Temperature Monitoring</b>	No 	No 	32 Sensors 	32 Sensors 	32 Sensors 	16 w/FBSCAB 	16 w/FBSCAB 	128 w/8 FBSCABs 	No 
<b>Drive Bay Mount Available</b>	No 	No 	Yes 	Yes 	Yes 	Yes 	Yes 	Yes 	No 
<b>1RU (Rack Unit) Compatible</b>	No 	No 	Yes 	Yes 	Yes 	Yes 	Yes 	Yes 	No 
<b>12v Fan Control / Monitoring</b>	No 	No 	No 	4 w/SCAB 	4 	4 w/FBSCAB 	4 w/FBSCAB 	32 w/8 FBSCABs 	No 
<b>Bi-Color Dimmable Status LEDs</b>	No 	No 	No 	No 	No 	Yes 	Yes 	Yes 	Yes 
<b>User Upgradable Firmware</b>	No 	No 	No 	No 	No 	Yes 	Yes 	Yes 	Yes 
<b>Custom Graphics Support</b>	No 	No 	No 	No 	No 	No 	No 	Yes 	No 
<b>MicroSD Support for Files &amp; Graphics</b>	No 	No 	No 	No 	No 	No 	No 	Yes 	No 
<b>Analog Voltage Inputs (ADC)</b>	No 	No 	No 	No 	No 	No 	No 	2 	No 
<b>Closed-Loop Fan Control</b>	No 	No 	No 	No 	No 	No 	No 	Yes 	No 
<b>Steel Enclosure</b>	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)**

**\* 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.



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