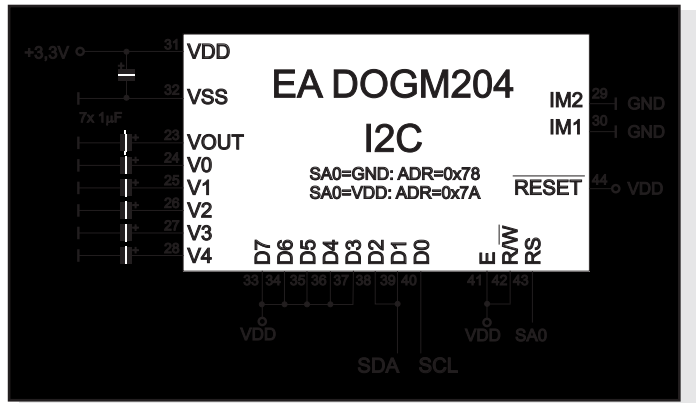
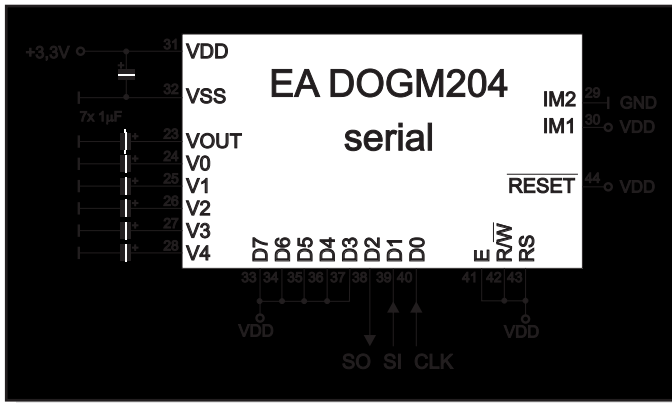
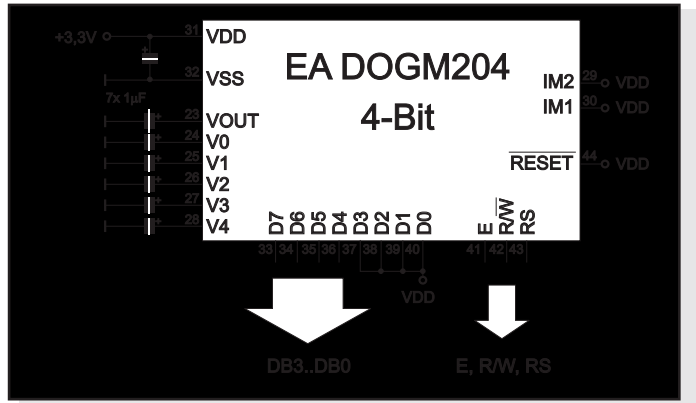
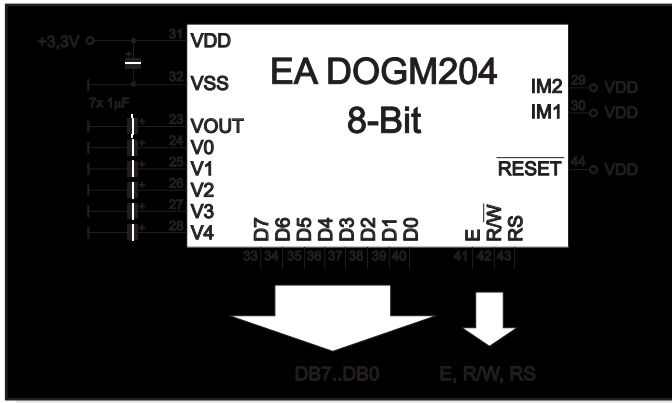


APPLICATION EXAMPLES

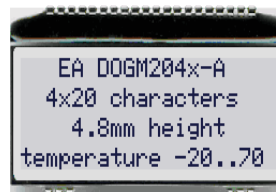
Different wiring must be used depending on the interface.

Note that the COG technology means that the current capacity of the outputs is limited. Therefore, a large load on the bus may cause signal loops and unclear levels. If in doubt, additional pull-down resistors (8051) are required or additional waits/NOPs must be incorporated.

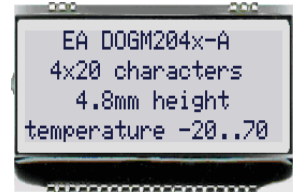


12:00 VIEWING ANGLE, TOP VIEW OPTION

If the display is read mostly from above (on the front of a laboratory power supply unit, for example), the preferred angle of viewing can be set to 12 o'clock. This rotates the display by 180°. A slightly different initialization setup is required for this.



6 o'clock (Bottom View)



12 o'clock (Top View)

SETTING THE CONTRAST

The contrast on all displays of the EA DOG series can be set with a command. This is done using bits C0 through C5 in the commands "Contrast Set" and "Power/Icon Control/Contrast Set". Generally, the contrast is set once and kept constant across the entire operating temperature range (-20 through +70°C) thanks to the integrated temperature compensation function.

Even when run at 3.3 V, the displays do not require any additional negative voltage!

Contrast set (8-Bit)												
Command	RS	RW	DB7	DB6	DB5	DB4	DB3	DB2	DB1	DB0	Hex	Remark
Function Set	0	0	0	0	1	1	1	0	0	1	\$39	8-Bit data length extension Bit RE=0; IS=1
Power control	0	0	0	1	0	1	0	1	1	1	\$57	Booster on and set contrast (DB1=C5, DB0=C4)
Contrast Set	0	0	0	1	1	1	0	0	1	0	\$72	Set contrast (DB3-DB0=C3-C0)
Function Set	0	0	0	0	1	1	1	0	1	0	\$38	8-Bit data length extension Bit RE=0; IS=0