



EA DOG-Simulator manual

Mai 2019
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1 General

DOG-Simulator "StartDog.exe"

The program „[StartDog.exe](#)“^[4] simulates all displays from EA DOG series and the EA eLABEL20-A. Display setting will be done via menu [Module](#)^[7]. The menu [Glass](#)^[9] and [Led](#)^[10] selects one of various types. This does mean that with this little program all display types and colors can be simulated. This simulator can be used alone but also together with our Test- and Demoboard [EA 9780-4USB](#)^[14].

Test-Board "EA 9780-4USB"

For easy startup, a USB test board [EA 9780-4USB](#)^[14] is available that can be connected to a PC. All displays from EA DOG series will put into operation in a flash. There is no hardware or software knowlegde necessary. The program „[StartDog.exe](#)“^[4] runs also with a connected [EA 9780-4USB](#)^[14]. Text and pictures (BMP) can be shown directly on the connected display.



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<http://www.lcd-module.de>

2 DOG Simulator

2.1 StartDog.exe V4.5

EA DOG Simulator

StartDog.exe V4.5



You can download the DOG Simulator Software V4.5 free of charge from our Homepage as a .zip file. After unzip you easily can start our StartDog Simulator with a double click on the startdog.exe. It starts up immediately with a windows frame and a tool bar with 5 pull down buttons:

File⁵ Module⁷ Glass⁹ Led¹⁰ Help¹²

2.2 File

Under the **File** Pull DownButton you can select special functions in four sections:



Open File

Open the File-Dialogbox where you can choose a text or graphic file;

Power on Reset

Makes a Reset to the external display, if it is connected with our test board [EA 9780-4USB](#)^[14] to the USB I/F of the computer; After the Reset the module gets new initializing and the cursor moves to the left upper position, ready to write text to the display from the PC keyboard;

Demo

Starts a Demo with four alternating contents on the screen and optional on the display plugged to our [EA 9780-4USB](#)^[14];

Clear Display

Clears the display and the cursor moves to the left upper position, ready to write text to the display from the PC keyboard;

Show Window

Shows or hides the frame of the DOG Simulation on the PC screen; When the frame with the menu is hidden you can find the menu with a right mouse click in the display area;

Always on Top

The Window of the DOG-Simulator always stays in front of the other software pages, whatever page or other Software you are opening;

Minimize to Tray

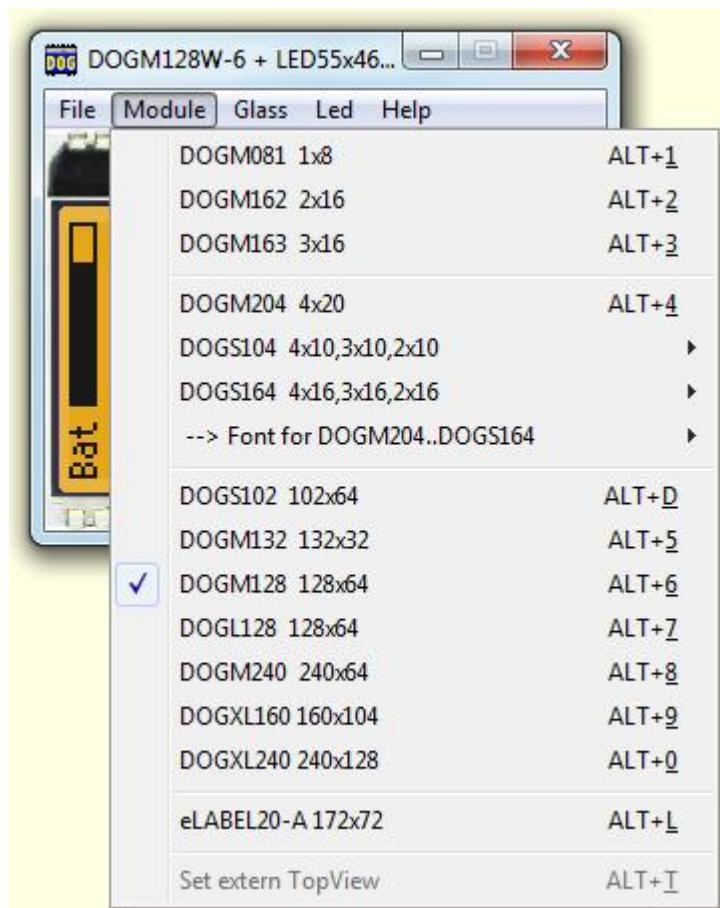
Hides the DOG window from the window screen into a small symbol in the tool bar; The [EA 9780-4USB](#)^[14] is still working as before.

Exit

Stores display organization, display type, color of backlight and contrast that had been changed in the last session and closes the application;

2.3 Module

Under the **Module** Pull Down Button you can select different display organisations in two sections:



DOGM081 1x8	1 line with 8 digits
DOGM162 2x16	2 lines with 16 digits
DOGM163 3x16	3 lines with 16 digits

DOGM204 4x20	4 lines with 20 digits
DOGS104 4x10	4/3/2 lines with 10 digits
DOGS164 4x16	4/3/2 lines with 16 digits
Font for DOGM204..DOGS164	switch between ROMA-european, ROMB-cyrillic and ROMC-japanese

DOGS102 102x64	Graphicdisplay 102 by 64 dots
DOGM132 132x32	Graphicdisplay 132 by 32 dots
DOGM128 128x64	Graphicdisplay 128 by 64 dots
DOGL128 128x64	Graphicdisplay 128 by 64 dots
DOGM240 240x64	Graphicdisplay 240 by 64 dots
DOGXL128 160x104	Graphicdisplay 160 by 104 dots
DOGXL240 240x128	Graphicdisplay 240 by 128 dots

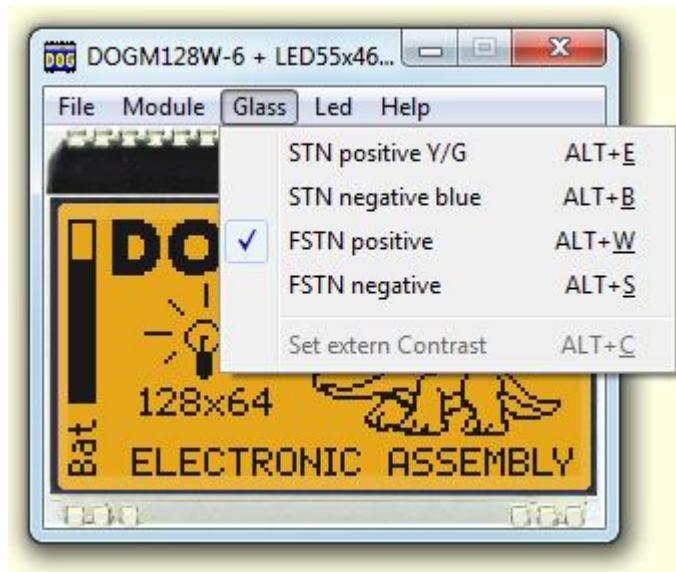
eLABEL20-A 172x72intelligent ePaper 172 by 72 dots

Set extern TopView

If a graphic display is connected with our demo- and test board [EA 9780-4USB](#)^[14] to the USB I/F of the computer, content will be rotated by 180°; otherwise this option is grayed-out.

2.4 Glass

Under the **Glass** Pull Down Button you have the choice to select different LCD display technologies in two sections:



STN positive Y/G

Black letters on background like backlight with Y/G shade;

STN negative blue

Letters like backlight with blue or dark background;

FSTN positive

Black letters on background like backlight;

FSTN negative

Letters like backlight with black background;

Set extern Contrast

If a display is connected with our test board [EA 9780-4USB](#)¹⁴ to the USB I/F of the computer; A window with a sliding resistor is opened on the monitor and you can move it with the mouse; A second click on this label closes the sliding resistor window. Note: Setting will be stored after closing the Simulator;

2.5 Led

Under the **Led** Pull Down Button you have the choice to select different LED backlight colors in three sections:



In the first section only None can be clicked, this is mainly for a reflective LCD Glass or for the appearance of any other Glass when the backlight is switched off (e.g. for a power safe mode); When [EA 9780-4USB](#)^[14] is connected also the backlight of this display is switched off;

In the second section you can select the single color backlights white, yellow/green, amber, blue, red and green; The backlight of a connected [EA 9780-4USB](#)^[14] naturally can not change;

In the third section you can select all the combinations when you are using a full color RGB backlight system

(Please note that you need to change the [DIP-Switches](#)^[15] on the [EA 9780-4USB](#)^[14] for usage with the RGB-backlight):

RGB-LED R	only the red LED of 3-color backlight is on;
RGB-LED G	only the green LED of 3-color backlight is on;
RGB-LED R+G	only the red and green LED of 3-color backlight are on;
RGB-LED B	only the blue LED of 3-color backlight is on;
RGB-LED R+B	only the red and blue LED of 3-color backlight are on;
RGB-LED G+B	only the green and blue LED of 3-color backlight are on;
RGB-LED R+G+B	all 3 LED of 3-color backlight are on;

In the fourth section you can select all the combinations when you are using a duo color GR backlight system (Please note that you need to change the [DIP-Switches](#)^[15] on the [EA 9780-4USB](#)^[14] for usage with the GR-backlight):

GR-LED R	only the red LED of 2-color backlight is on;
GR-LED G	only the green LED of 2-color backlight is on;
GR-LED R+G	all 2 LED of 2-color backlight are on;

In the fifth section you can select all the combinations when you are using a three color ERW backlight system (Please note that you need to change the [DIP-Switches](#)^[15] on the [EA 9780-4USB](#)^[14] for usage with the ERW-backlight):

ERW-LED E	only the green LED of 3-color backlight is on;
ERW-LED R	only the red LED of 3-color backlight is on;
ERW-LED E+R	the green and red LED of 3-color backlight are on;
ERW-LED W	the white LED of 3-color backlight is on;

Basically every EA DOG LCD glass can be combined with every LED backlight system, if it is selectable;

But you will see very soon that not all combinations do make sense.

2.6 Help

Under the **Help** Pull Down Button you have the choice to select this Help-text or an info box:



Help

This click shows you the Help-File;

About

This click shows you the software version of the DOG Simulator and whether the USB-Board is successfully connected to the PC;



3 EA 9780-4USB

Enter topic text here.

3.1 Features

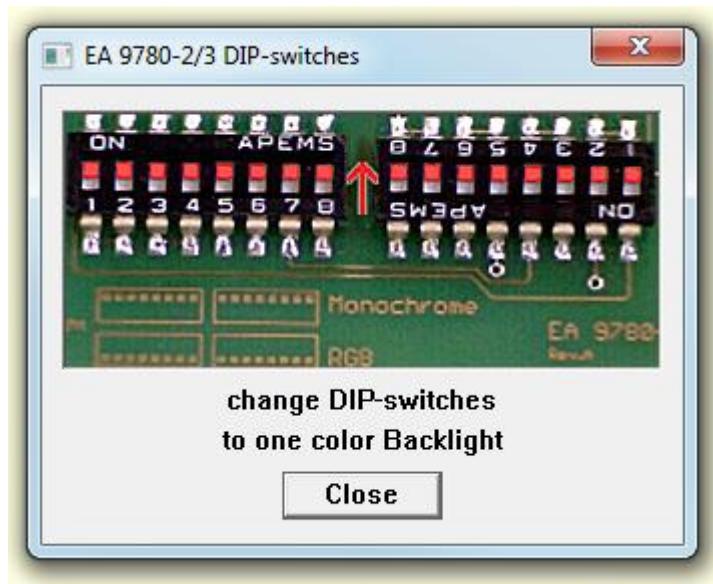
With that test board all displays from EA DOG series and EA eLABEL20 will put into operation in a flash. There is no hardware or software knowlegde necessary. The included USB cable performs easily the connection to the PC. Text and pictures (BMP) can be shown direct on the connected display.

- * Connection to USB: simple Usage
- * Good for all EA DOG Modules and EA eLABEL20
- * no power supply necessary
- * with demo-text and demo-pictures
- * individual text and pictures are supported also
- * LED driving circuit integrated
- * switch on and off LED backlight
- * inclusive USB cable (1.5m)

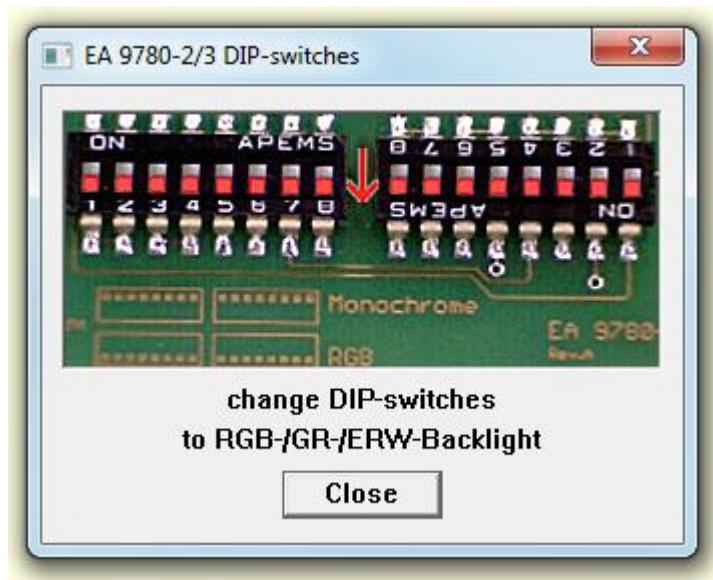
3.2 LED-backlight

The board EA 9780-4USB is ready to use for all LED backlights.

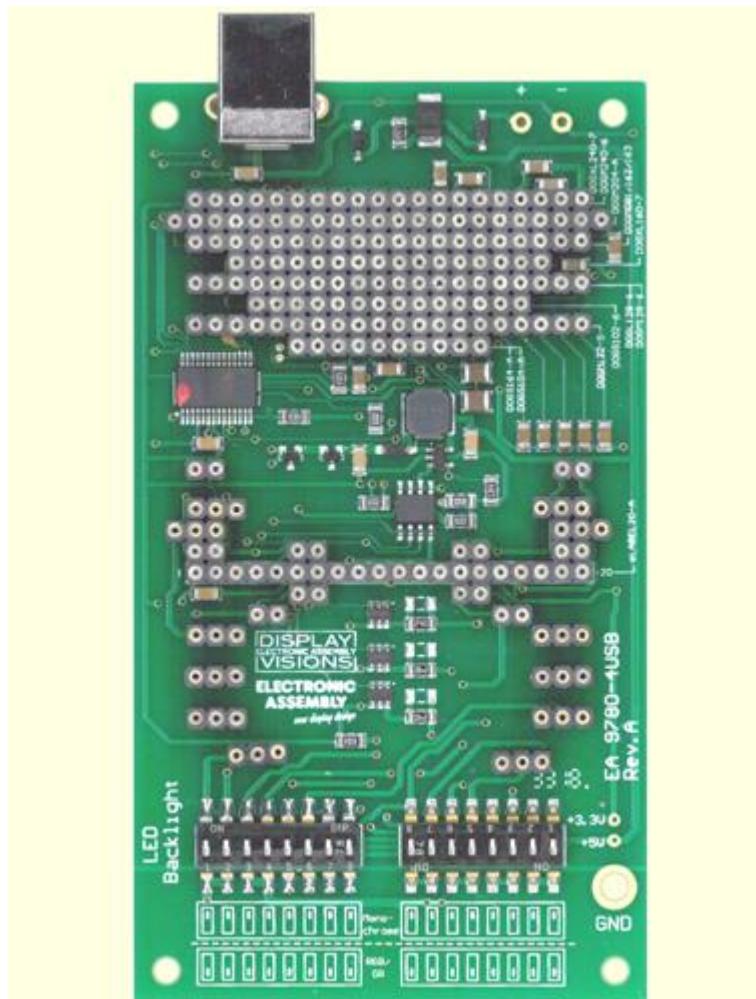
To operate the single-color LED versions white, yellow/green, amber, blue, red or green
the DIP-switches must be changed to top position:



To operate the full-color RGB version EA LEDxxx-RGB
or duo-color verion EA LEDxxx-GR
or three-color verion EA LEDxxx-ERW
the DIP-switches must be changed to bottom position:



3.3 9780-4 EMPTY



EMPTY - eLABEL20¹⁷
DOGM081¹⁸ - DOGM162¹⁹ - DOGM163²⁰
DOGM204²¹ - DOGS104²² - DOGS164²³ - DOGS102²⁴
DOGM132²⁵ - DOGM128²⁶ - DOGL128²⁷ - DOGM240²⁸
DOGXL160²⁹ - DOGXL240³⁰

3.4 9780-4 eLABEL20



EMPTY^[16] - eLABEL20
DOGM081^[18] - DOGM162^[19] - DOGM163^[20]
DOGM204^[21] - DOGS104^[22] - DOGS164^[23] - DOGS102^[24]
DOGM132^[25] - DOGM128^[26] - DOGL128^[27] - DOGM240^[28]
DOGXL160^[29] - DOGXL240^[30]

3.5 9780-4 DOGM081



EMPTY [16] - eLABEL20 [17]
DOGM081 - DOGM162 [18] - DOGM163 [20]
DOGM204 [21] - DOGS104 [22] - DOGS164 [23] - DOGS102 [24]
DOGM132 [25] - DOGM128 [26] - DOGL128 [27] - DOGM240 [28]
DOGXL160 [29] - DOGXL240 [30]

3.6 9780-4 DOGM162



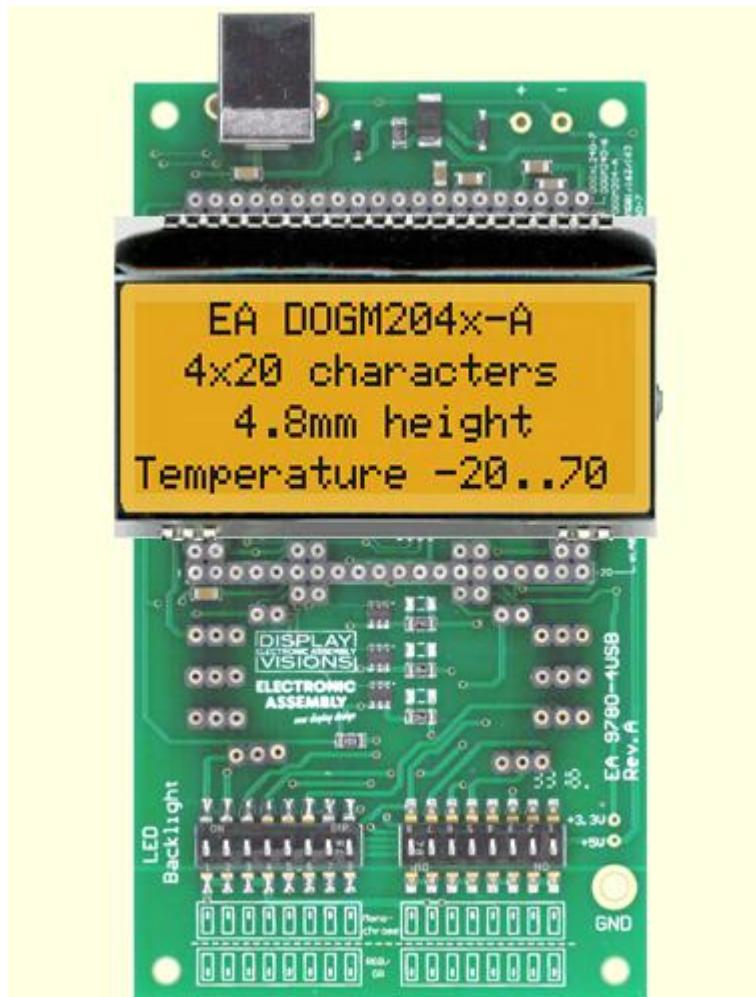
EMPTY [16] - eLABEL20 [17]
DOGM081 [18] - DOGM162 - DOGM163 [20]
DOGM204 [21] - DOGS104 [22] - DOGS164 [23] - DOGS102 [24]
DOGM132 [25] - DOGM128 [26] - DOGL128 [27] - DOGM240 [28]
DOGXL160 [29] - DOGXL240 [30]

3.7 9780-4 DOGM163



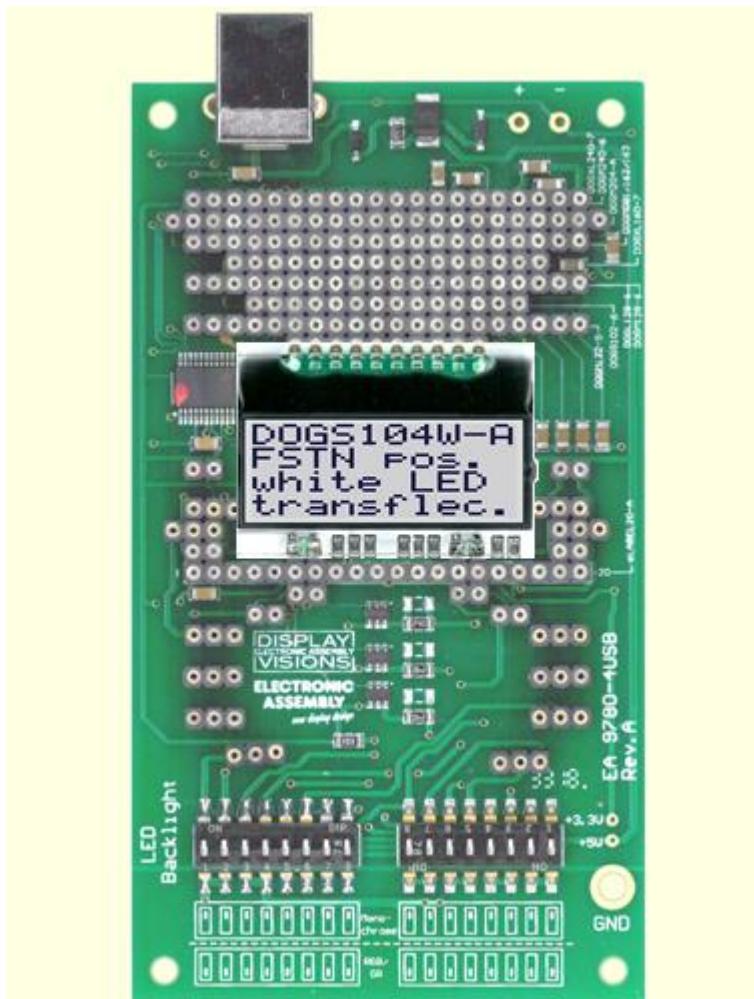
EMPTY [16] - eLABEL20 [17]
DOGM081 [18] - DOGM162 [19] - DOGM163
DOGM204 [21] - DOGS104 [22] - DOGS164 [23] - DOGS102 [24]
DOGM132 [25] - DOGM128 [26] - DOGL128 [27] - DOGM240 [28]
DOGXL160 [29] - DOGXL240 [30]

3.8 9780-4 DOGM204



EMPTY^[16] - eLABEL20^[17]
DOGM081^[18] - DOGM162^[19] - DOGM163^[20]
DOGM204 - DOGS104^[22] - DOGS164^[23] - DOGS102^[24]
DOGM132^[25] - DOGM128^[26] - DOGL128^[27] - DOGM240^[28]
DOGXL160^[29] - DOGXL240^[30]

3.9 9780-4 DOGS104



EMPTY^[16] - eLABEL20^[17]
DOGM081^[18] - DOGM162^[19] - DOGM163^[20]
DOGM204^[21] - DOGS104 - DOGS164^[23] - DOGS102^[24]
DOGM132^[25] - DOGM128^[26] - DOGL128^[27] - DOGM240^[28]
DOGXL160^[29] - DOGXL240^[30]

3.10 9780-4 DOGS164



EMPTY [16] - eLABEL20 [17]
DOGM081 [18] - DOGM162 [19] - DOGM163 [20]
DOGM204 [21] - DOGS104 [22] - DOGS164 - DOGS102 [24]
DOGM132 [25] - DOGM128 [26] - DOGL128 [27] - DOGM240 [28]
DOGXL160 [29] - DOGXL240 [30]

3.11 9780-4 DOGS102



EMPTY [16] - eLABEL20 [17]
DOGM081 [18] - DOGM162 [19] - DOGM163 [20]
DOGM204 [21] - DOGS104 [22] - DOGS164 [23] - DOGS102
DOGM132 [25] - DOGM128 [26] - DOGL128 [27] - DOGM240 [28]
DOGXL160 [29] - DOGXL240 [30]

3.12 9780-4 DOGM132



EMPTY [16] - eLABEL20 [17]
DOGM081 [18] - DOGM162 [19] - DOGM163 [20]
DOGM204 [21] - DOGS104 [22] - DOGS164 [23] - DOGS102 [24]
DOGM132 - DOGM128 [26] - DOGL128 [27] - DOGM240 [28]
DOGXL160 [29] - DOGXL240 [30]

3.13 9780-4 DOGM128



EMPTY^[16] - eLABEL20^[17]
DOGM081^[18] - DOGM162^[19] - DOGM163^[20]
DOGM204^[21] - DOGS104^[22] - DOGS164^[23] - DOGS102^[24]
DOGM132^[25] - DOGM128 - DOGL128^[27] - DOGM240^[28]
DOGXL160^[29] - DOGXL240^[30]

3.14 9780-4 DOGL128



EMPTY [16] - eLABEL20 [17]
DOGM081 [18] - DOGM162 [19] - DOGM163 [20]
DOGM204 [21] - DOGS104 [22] - DOGS164 [23] - DOGS102 [24]
DOGM132 [25] - DOGM128 [26] - DOGL128 - DOGM240 [28]
DOGXL160 [29] - DOGXL240 [30]

3.15 9780-4 DOGM240



EMPTY [16] - eLABEL20 [17]
DOGM081 [18] - DOGM162 [19] - DOGM163 [20]
DOGM204 [21] - DOGS104 [22] - DOGS164 [23] - DOGS102 [24]
DOGM132 [25] - DOGM128 [26] - DOGL128 [27] - DOGM240
DOGXL160 [29] - DOGXL240 [30]

3.16 9780-4 DOGXL160



EMPTY [16] - eLABEL20 [17]
DOGM081 [18] - DOGM162 [19] - DOGM163 [20]
DOGM204 [21] - DOGS104 [22] - DOGS164 [23] - DOGS102 [24]
DOGM132 [25] - DOGM128 [26] - DOGL128 [27] - DOGM240 [28]
DOGXL160 - DOGXL240 [30]

3.17 9780-4 DOGXL240



EMPTY^[16] - eLABEL20^[17]
DOGM081^[18] - DOGM162^[19] - DOGM163^[20]
DOGM204^[21] - DOGS104^[22] - DOGS164^[23] - DOGS102^[24]
DOGM132^[25] - DOGM128^[26] - DOGL128^[27] - DOGM240^[28]
DOGXL160^[29] - DOGXL240

4 EA 9780-3USB

4.1 Features

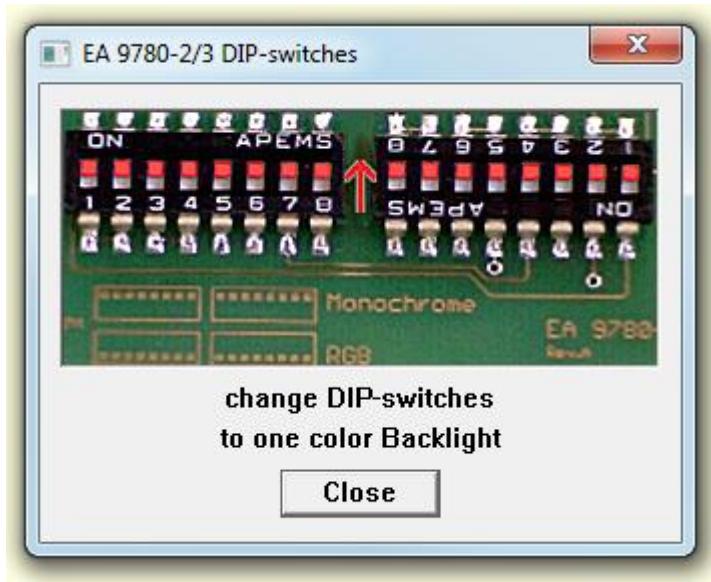
With that test board all displays from EA DOG series and EA eLABEL20 will put into operation in a flash. There is no hardware or software knowlegde necessary. The included USB cable performs easly the connection to the PC. Text and pictures (BMP) can be shown direct on the connected display.

- * Connection to USB: simple Usage
- * Good for all EA DOG Modules and EA eLABEL20
- * no power supply necessary
- * with demo-text and demo-pictures
- * individual text and pictures are supported also
- * LED driving circuit integrated
- * switch on and off LED backlight
- * inclusive USB cable (1.5m)

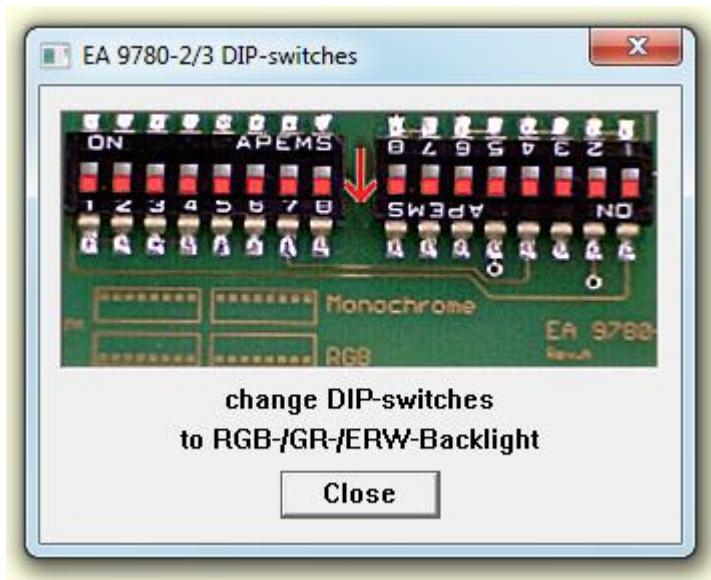
4.2 LED-backlight

The board EA 9780-3USB is ready to use for all LED backlights.

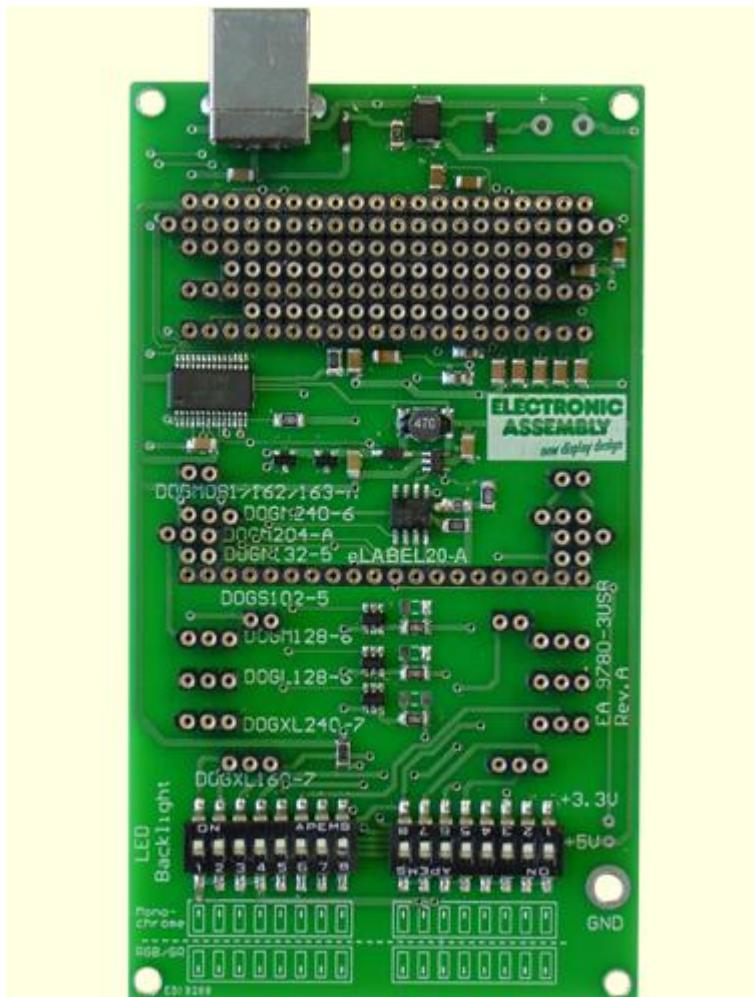
To operate the single-color LED versions white, yellow/green, amber, blue, red or green
the DIP-switches must be changed to top position:



To operate the full-color RGB version EA LEDxxx-RGB
or duo-color verion EA LEDxxx-GR
or three-color verion EA LEDxxx-ERW
the DIP-switches must be changed to bottom position:



4.3 9780-3 EMPTY



EMPTY - eLABEL20^[34]

DOGM081^[35] - DOGM162^[36] - DOGM163^[37] - DOGM204^[38]
DOGS104^[39] - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]
DOGL128^[43] - DOGM240^[44] - DOGX160^[45] - DOGXL240^[46]

4.4 9780-3 eLABEL20



EMPTY^[33] - eLABEL20

DOGM081^[35] - DOGM162^[36] - DOGM163^[37] - DOGM204^[38]

DOGS104^[39] - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]

DOGL128^[43] - DOGM240^[44] - DOGXL160^[45] - DOGXL240^[46]

4.5 9780-3 DOGM081



EMPTY^[33] - eLABEL20^[34]
DOGM081 - DOGM162^[36] - DOGM163^[37] - DOGM204^[38]
DOGS104^[39] - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]
DOGL128^[43] - DOGM240^[44] - DOGX160^[45] - DOGXL240^[46]

4.6 9780-3 DOGM162



EMPTY^[33] - eLABEL20^[34]
DOGM081^[35] - DOGM162 - DOGM163^[37] - DOGM204^[38]
DOGS104^[39] - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]
DOGL128^[43] - DOGM240^[44] - DOGXL160^[45] - DOGXL240^[46]

4.7 9780-3 DOGM163



EMPTY^[33] - eLABEL20^[34]

DOGM081^[35] - DOGM162^[36] - DOGM163 - DOGM204^[38]
DOGS104^[39] - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]
DOGL128^[43] - DOGM240^[44] - DOGXL160^[45] - DOGXL240^[46]

4.8 9780-3 DOGM204



EMPTY^[33] - eLABEL20^[34]

DOGM081^[35] - DOGM162^[36] - DOGM163^[37] - DOGM204

DOGS104^[39] - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]

DOGL128^[43] - DOGM240^[44] - DOGXL160^[45] - DOGXL240^[46]

4.9 9780-3 DOGS104



EMPTY^[33] - eLABEL20^[34]

DOGM081^[35] - DOGM162^[36] - DOGM163^[37] - DOGM204^[38]

DOGS104 - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]

DOGL128^[43] - DOGM240^[44] - DOGXL160^[45] - DOGXL240^[46]

4.10 9780-3 DOGS102



EMPTY^[33] - eLABEL20^[34]

DOGM081^[35] - DOGM162^[36] - DOGM163^[37] - DOGM204^[38]

DOGS104^[39] - DOGS102 - DOGM132^[41] - DOGM128^[42]

DOGL128^[43] - DOGM240^[44] - DOGXL160^[45] - DOGXL240^[46]

4.11 9780-3 DOGM132



EMPTY [33] - eLABEL20 [34]

DOGM081 [35] - DOGM162 [36] - DOGM163 [37] - DOGM204 [38]
DOGS104 [39] - DOGS102 [40] - DOGM132 - DOGM128 [42]
DOGL128 [43] - DOGM240 [44] - DOGXL160 [45] - DOGXL240 [46]

4.12 9780-3 DOGM128



EMPTY [33] - eLABEL20 [34]

DOGM081 [35] - DOGM162 [36] - DOGM163 [37] - DOGM204 [38]

DOGS104 [39] - DOGS102 [40] - DOGM132 [41] - DOGM128

DOGL128 [43] - DOGM240 [44] - DOGXL160 [45] - DOGXL240 [46]

4.13 9780-3 DOGL128



EMPTY^[33] - eLABEL20^[34]
DOGM081^[35] - DOGM162^[36] - DOGM163^[37] - DOGM204^[38]
DOGS104^[39] - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]
DOGL128 - DOGM240^[44] - DOGXL160^[45] - DOGXL240^[46]

4.14 9780-3 DOGM240



EMPTY^[33] - eLABEL20^[34]
DOGM081^[35] - DOGM162^[36] - DOGM163^[37] - DOGM204^[38]
DOGS104^[39] - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]
DOGL128^[43] - DOGM240 - DOGXL160^[45] - DOGXL240^[46]

4.15 9780-3 DOGXL160



EMPTY^[33] - eLABEL20^[34]
DOGM081^[35] - DOGM162^[36] - DOGM163^[37] - DOGM204^[38]
DOGS104^[39] - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]
DOGL128^[43] - DOGM240^[44] - DOGXL160 - DOGXL240^[46]

4.16 9780-3 DOGXL240



EMPTY^[33] - eLABEL20^[34]
DOGM081^[35] - DOGM162^[36] - DOGM163^[37] - DOGM204^[38]
DOGS104^[39] - DOGS102^[40] - DOGM132^[41] - DOGM128^[42]
DOGL128^[43] - DOGM240^[44] - DOGXL160^[45] - DOGXL240

5 EA 9780-2USB

5.1 Features

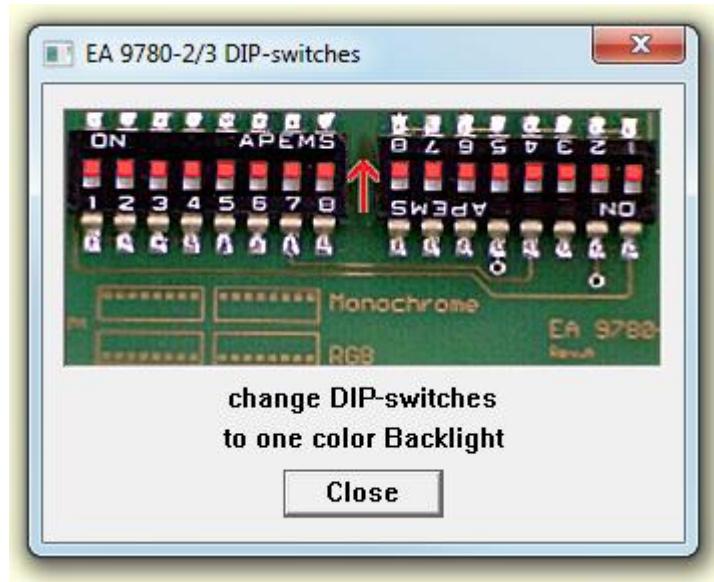
With that test board all displays from EA DOG series (until 2012) will put into operation in a flash. There is no hardware or software knowlegde necessary. The included USB cable performs easily the connection to the PC. Text and pictures (BMP) can be shown direct on the connected display.

- * Connection to USB: simple Usage
- * Good for all EA DOG Modules
- * no power supply necessary
- * with demo-text and demo-pictures
- * individual text and pictures are supported also
- * LED driving circuit integrated
- * switch on and off LED backlight
- * incl. blue illuminated USB cable (1.5m)

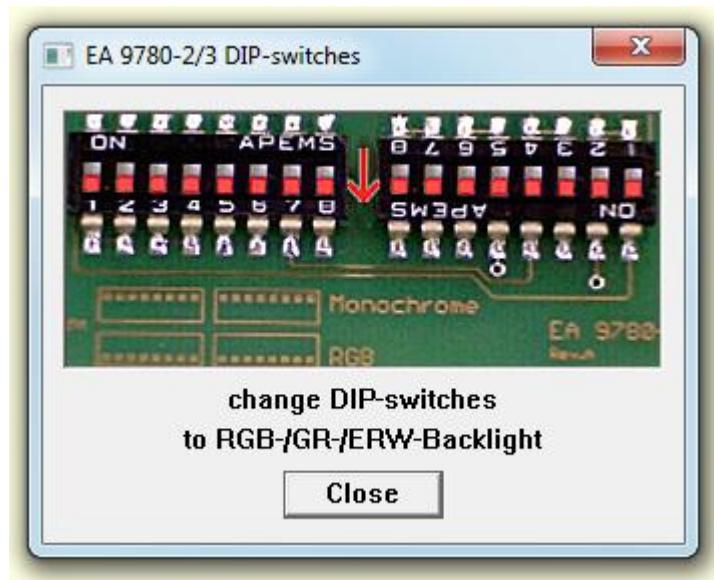
5.2 LED-backlight

The board EA 9780-2USB is ready to use for all LED backlights.

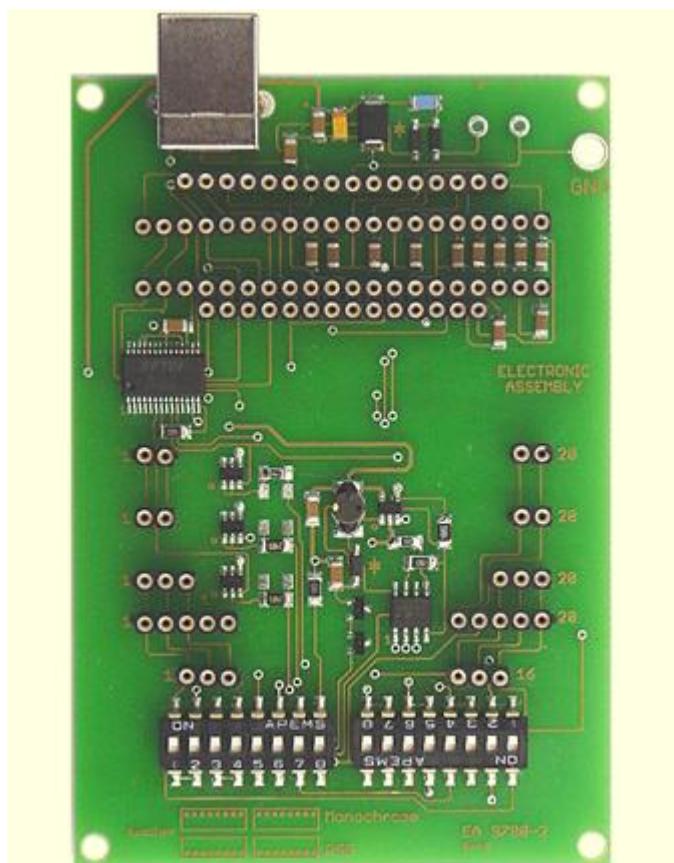
To operate the single-color LED versions white, yellow/green, amber, blue, red or green
the DIP-switches must be changed to top position:



To operate the full-color RGB version EA LEDxxx-RGB
or duo-color verion EA LEDxxx-GR
or three-color verion EA LEDxxx-ERW
the DIP-switches must be changed to bottom position:



5.3 9780-2 EMPTY



EMPTY - [DOGM081](#)⁵⁰ - [DOGM162](#)⁵¹ - [DOGM163](#)⁵² - [DOGS104](#)⁵³
[DOGS102](#)⁵⁴ - [DOGM132](#)⁵⁵ - [DOGM128](#)⁵⁶ - [DOGL128](#)⁵⁷ - [DOGXL160](#)⁵⁸

5.4 9780-2 DOGM081



EMPTY⁴⁸ - DOGM081 - DOGM162⁵¹ - DOGM163⁵² - DOGS104⁵³
DOGS102⁵⁴ - DOGM132⁵⁵ - DOGM128⁵⁶ - DOGL128⁵⁷ - DOGXL160⁵⁸

5.5 9780-2 DOGM162



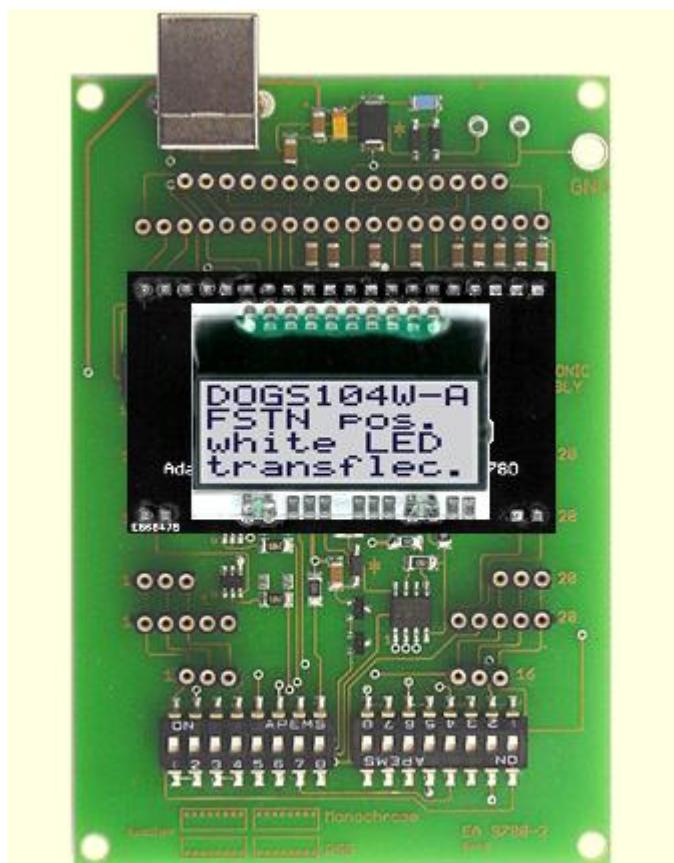
[EMPTY](#)^[49] - [DOGM081](#)^[50] - [DOGM162](#) - [DOGM163](#)^[52] - [DOGS104](#)^[53]
[DOGS102](#)^[54] - [DOGM132](#)^[55] - [DOGM128](#)^[56] - [DOGL128](#)^[57] - [DOGXL160](#)^[58]

5.6 9780-2 DOGM163



[EMPTY](#)^[49] - [DOGM081](#)^[50] - [DOGM162](#)^[51] - [DOGM163](#) - [DOGS104](#)^[53]
[DOGS102](#)^[54] - [DOGM132](#)^[55] - [DOGM128](#)^[56] - [DOGL128](#)^[57] - [DOGXL160](#)^[58]

5.7 9780-2 DOGS104



[EMPTY](#) [49] - [DOGM081](#) [50] - [DOGM162](#) [51] - [DOGM163](#) [52] - [DOGS104](#)
[DOGS102](#) [54] - [DOGM132](#) [55] - [DOGM128](#) [56] - [DOGL128](#) [57] - [DOGXL160](#) [58]

5.8 9780-2 DOGS102



[EMPTY](#)^[49] - [DOGM081](#)^[50] - [DOGM162](#)^[51] - [DOGM163](#)^[52] - [DOGS104](#)^[53]
DOGS102 - [DOGM132](#)^[55] - [DOGM128](#)^[56] - [DOGL128](#)^[57] - [DOGXL160](#)^[58]

5.9 9780-2 DOGM132



[EMPTY](#) [49] - [DOGM081](#) [50] - [DOGM162](#) [51] - [DOGM163](#) [52] - [DOGS104](#) [53]
[DOGS102](#) [54] - [DOGM132](#) - [DOGM128](#) [56] - [DOGL128](#) [57] - [DOGXL160](#) [58]

5.10 9780-2 DOGM128



[EMPTY](#) [49] - [DOGM081](#) [50] - [DOGM162](#) [51] - [DOGM163](#) [52] - [DOGS104](#) [53]
[DOGS102](#) [54] - [DOGM132](#) [55] - [DOGM128](#) - [DOGL128](#) [57] - [DOGXL160](#) [58]

5.11 9780-2 DOGL128



[EMPTY](#) [49] - [DOGM081](#) [50] - [DOGM162](#) [51] - [DOGM163](#) [52] - [DOGS104](#) [53]
[DOGS102](#) [54] - [DOGM132](#) [55] - [DOGM128](#) [56] - [DOGL128](#) - [DOGXL160](#) [58]

5.12 9780-2 DOGXL160



EMPTY^[49] - DOGM081^[50] - DOGM162^[51] - DOGM163^[52] - DOGS104^[53]
DOGS102^[54] - DOGM132^[55] - DOGM128^[56] - DOGL128^[57] - DOGXL160

6 Individual Pictures/Text

How to bring Text/Pictures to the Display

By Simulator Software: When you have double clicked to the startdog.exe, immediately a demo page appears on the monitor, when a [EA 9780-4USB](#)^[14] the demo page appears as soon as the right organization is chosen under the [Module](#)^[7] pull down button;
Additionally you can select under the [File](#)^[5] pull down button the function Demo for other pictures/text;

By Keyboard: Easiest way to get individual text to the displays is to click under [File](#)^[5] to Power on Reset or Clear Display. A full dot cursor appears blinking on the top left position. Now you can type with the keyboard the text you want to show in the display. When the line is full it writes to the next line, when it is at the end of the last line it shifts all content 1 line higher and writes again to the last line.

Individual Pictures/Text: If you want that the demo starts with your own text you can change the text files in the folder StartDog (DOGMxxx.txt) and save it. Immediately the program will take the new file and show your text.
If you want to show your own graphic file you should copy it into the bitmap files in the folder StartDog (DOGxxx.bmp) and save it. Immediately the program will take the new file and will show your graphic.
Also you can take a bmp- or text file with the mouse and drop it on the display area, it will include it.

Notes: The bmp-file must be a black and white one without gray scales and must not be bigger than the display resolution. Otherwise you will get an error note on the screen. Only 1pc. [EA 9780-4USB](#)^[14] can be connected to a PC;

7 Troubleshooting

No Demo appears on the display plugged to the EA 9780-xUSB

Please click in the menu [Help](#)^[12] the button About;
The display may be damaged;

"Board: not connected" please check:

Is the USB-cable plugged in well on both sides;
Is the USB driver installed on the PC;
The test board [EA 9780-4USB](#)^[14] may be damaged;

Backlight is not working:

The few LED pads on the one side should have contact to the LCD pins (2 times 2 or 3 pins);

Backlight is working but nothing is seen on the display:

The display pins on the other side are not correct plugged in;
Is the right display type selected in the [Module](#)^[7] Menu;
Please select "Set extern Contrast" in the Menu [Glass](#)^[9] and slide with the mouse the sliding resistor to adjust contrast;
The display may be damaged;