Using relocatable screen modules
on a G3 iEFIS

General

The G3 iEFIS from version 1.4.0.3 of the firmware onwards supports the concept of relocatable screen modules.

This allows screen designers to create functional screen items usually containing multiple related items in a limited area without knowing the final location or EFIS pages where this will be used.

The relocatable screen module

This takes the form of a file, usually with the ".mod" file extension – however this is not enforced so it may have any extension.

This file is copied into the screens folder from the external SD card using the EFIS file manager.

The modules.txt file

The modules.txt file is a simple text file that can be created and edited in a simple text editor such as notepad in Windows or it can be created or edited on the EFIS itself.
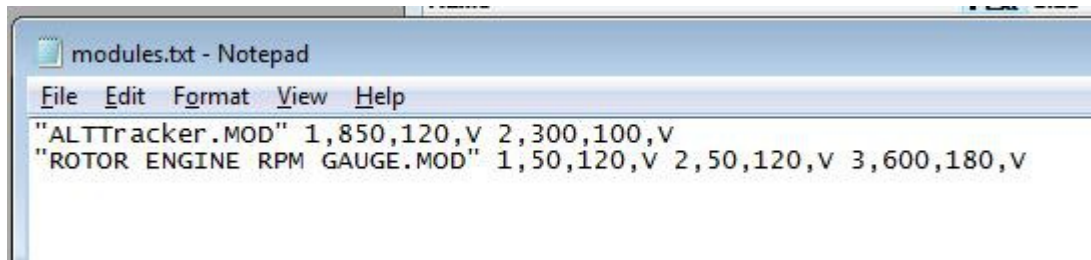
The modules.txt file needs to be located in the EFIS screens folder.

The modules.txt file contains instructions on which modules to place where on which page. One module can be placed on different pages in different locations.

Each line in the modules.txt file is dedicated to one module file.

You can have one or multiple modules as needed.

Example modules.txt file

This means:

Use the module ALTTRacker.MOD on page 1 at location X=850 and Y=120 and make it visible at all times (unless disabled on the EFIS by other means).

Also use the same module on page 2 at location X=300 and Y=100.
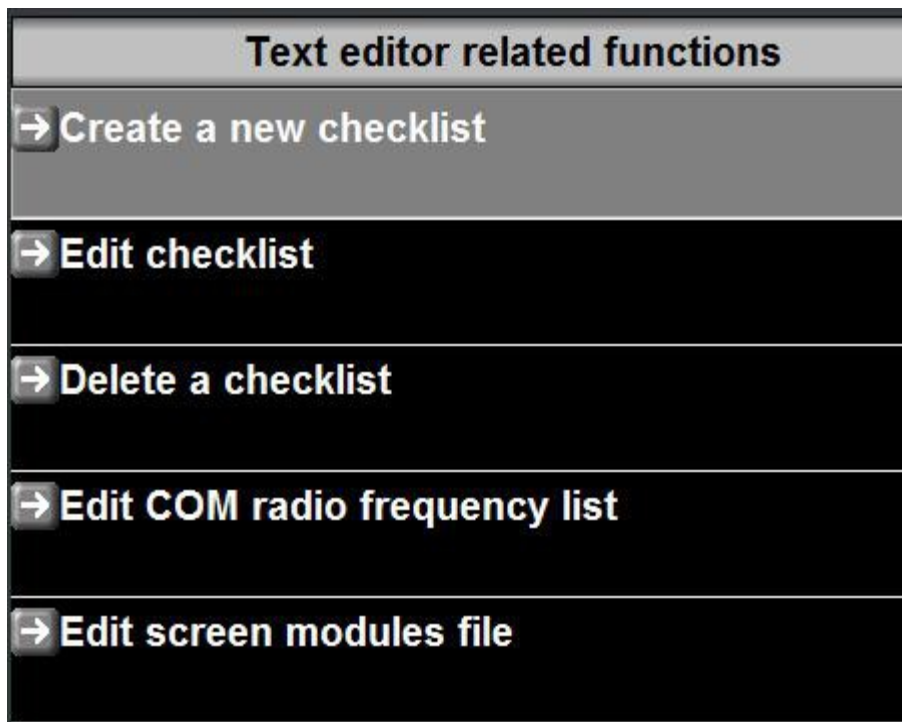
Then place the module "ROTOR ENGINE RPM GAUGE.MOD" on page 1 at location X=50 and Y=120 and make it visible. Also use it on pages 2 and 3 at the given locations.

If filenames contain spaces they must be surrounded by double quotes.

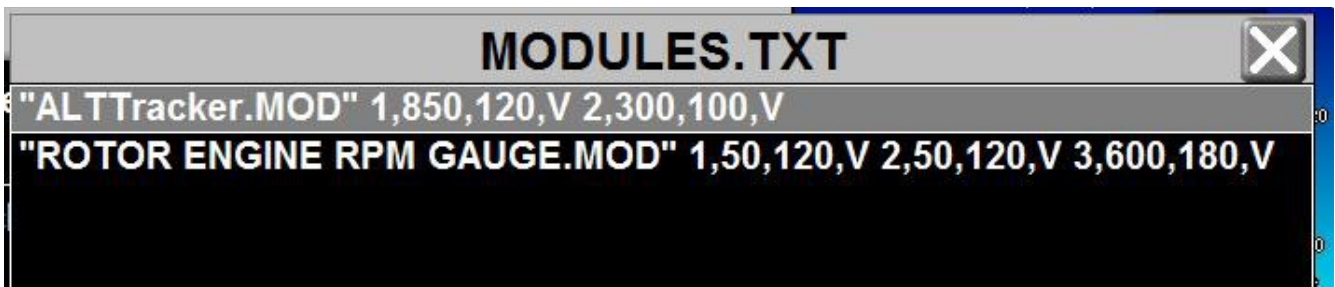# Using the iEFIS text editor for modules.txt

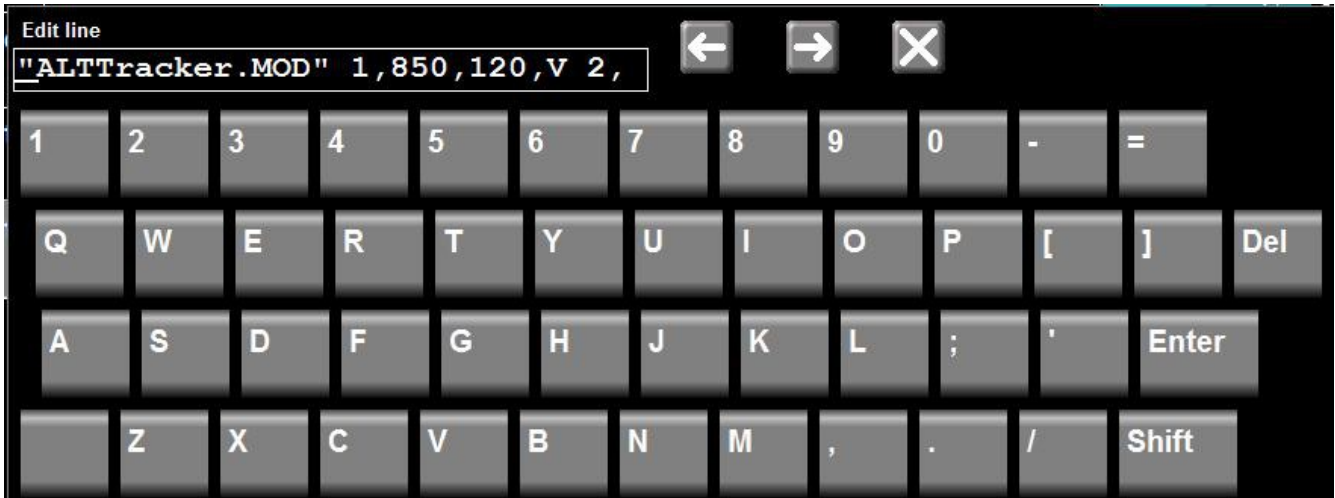Select the "Text editor related functions" in your system setup menu.

Select "Edit screen modules file"

Note if the modules.txt file does not exist in your screens folder, a new empty file will be created and opened for editing.

"ALTTracker.MOD" 1,850,120,V 2,300,100,V
"ROTOR ENGINE RPM GAUGE.MOD" 1,50,120,V 2,50,120,V 3,600,180,V

Touch the line you want to edit (to add a line touch the empty line below the last).

Edit line

"ALTTracker.MOD" 1,850,120,V 2,   ← → ☒

1	2	3	4	5	6	7	8	9	0	-	=
Q	W	E	R	T	Y	U	I	O	P	[	]	Del
A	S	D	F	G	H	J	K	L	;	'	Enter
Z	X	C	V	B	N	M	,	.	/	Shift

Edits are done in "insert" mode. If you type the new chacter is inserted at the cursor position and the characters to the right shift up. Use "Del" to delete the character at the cursor and "Enter" when you are done. The left and right arrow keys move the cursor. "X" cancels your edit and does not change the line.

| Up | Down | Edit | New< | New> | Delete | End | Save | Cancel |

The keys below (or to the left on a Discovery) allow further editing functions:

Up/Down to move the selected line (shown with a gray background).

Edit to edit the selected line (same as touching the line)

New< inserts a new blank line before the selected line

New> inserts a new blank line after the selected line

Delete deletes the selected line

End moves to the last line

Save asks you if you want to save the edited text (does not exit the editor)

Cancel cancels the Edit (same as touching X).

Screen coordinates

Screen coordinates are in units of one pixel on the display.

The upper left corner has coordinates X=0, Y=0

On Discovery and Explorer EFIS systems the lower right corner is X=799, Y=479

On Challenger systems the lower right corner is X=1023, Y=767

Module functional options

V = Always visible (unless suppressed by a dedicated function on the EFIS)

No other functional options exist at time of writing this manual.

Creating relocatable modules

Relocatable modules are created using the iEFIS simulator and screen designer. Please refer to the "iEFIS Alteration guide".