

N9H20 emWin HMI Change Log

Document Information

Abstract	Introduce N9H20 emWin HMI change log.
Apply to	N9H20 series

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1 Introduction

This document describes the files meaning in BSP/ThirdParty/emWin/Doc folder and Nuvoton N9H20 emWin HMI library change log.

Note: “Official” means this document comes from SEGGER emWin.


File Name	Description
Changelog.pdf	Nuvoton N9H20 emWin HMI Change log
UM_Font_Architect_EN_Rev1.03.pdf	Nuvoton emWin HMI font tool
UM_Font_Architect_TC_Rev1.03.pdf	Nuvoton emWin HMI font tool
AN03002_Custom_Widget_Type.pdf	Official application note
Release.html	Official change history
UM03001_emWin.pdf	Official user manual

2 N9H20 emWin HMI Change History

This chapter introduces N9H20 emWin HMI change log in the Nuvoton N9H20 BSP.

2.1 Change Log

N9H20 emWin HMI version	Description
V6.10f.6	<ul style="list-style-type: none"> Supported GB2312 font encoding. GB2312 sample code can be founded on NuForum http://forum.nuvoton.com/viewtopic.php?f=31&t=9221&p=11392
V6.10f.4	<ul style="list-style-type: none"> Supported bitmap font size greater than 255. Updated FontArchitect from v1.02 to v1.03 to generate bitmap font size greater than 255.
V6.10f.2	<ul style="list-style-type: none"> Nuvoton emWin HMI library comes from SEGGER emWin version V6.10f. Supported RGB565 or RGB888 rotation. (Source or destination)
V5.48k.8	<ul style="list-style-type: none"> Enabled "per-pixel alpha-blending" BitBlt feature to draw source format is ARGB8888 bitmap.
V5.48k.6	<ul style="list-style-type: none"> Added H/W BitBlt. (draw bitmap) GUI_DRAW_BMPM565 in 32-bit ARGB8888 frame buffer. (MSB is dummy byte) GUI_DRAW_BMPM8888I bitmap in 32-bit ARGB8888 frame buffer (MSB is dummy byte). GUI_DRAW_BMPM8888I bitmap in 16-bit RGB565 frame buffer.
V5.48k.4	<ul style="list-style-type: none"> Added GCC version library "libNUemWin_ARM9_GCC.a".
V5.48k.2	<ul style="list-style-type: none"> Nuvoton emWin HMI library comes from SEGGER emWin version V5.48k. Updated definition GUI_NUM_LAYERS from 1 to 4. (SoftLayer)
V5.46h.2	<ul style="list-style-type: none"> Initially created, Nuvoton emWin HMI library comes from SEGGER emWin version V5.46h. Updated definition GUI_USE_ARGB from 0 to 1.

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- Updated touch from INT to POLL mode.
 - Added H/W JPEG. (decoder)
 - Added H/W BitBlt. (Rotation, Scaling and Translation)
 - Added H/W BitBlt. (alpha blending)

Revision History

Date	Revision	Description
2020.03.31	1.00	1. Initially issued.
2020.10.30	1.01	<ol style="list-style-type: none"> 1. emWin library updated from v6.10f.2 to v6.10f.4. 2. Windows tool FontArchitect updated from v1.02 to v1.03.
2021.01.08	1.02	<ol style="list-style-type: none"> 1. emWin library updated from v6.10f.4 to v6.10f.6. 2. Supported GB2312 font encoding.

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