

Customer Notification

AP3-78K0RKX3A-EE

Applilet3 for 78K0R/Kx3-A

Operating Precautions

78K0R/KE3-A: μ PD78F1016, 78F1017, 78F1018

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A) Table of Operating Precautions for AP3-78K0RKX3A-EE

Table A-1 Table description

No.	Outline	Version	AP3-78K0RKX3A-EE		
			V1.10	V2.00	
A1	Missing API Reference		x	✓	
A2	TAUx: 0% and 100% duty cycle on PWM not selectable		x	x	
A3	Maximum Baudrate in CSImn is set to wrong value		-	x	
A4	Unused modules not erased from project file		-	x	
A5	Generated I ² C Start condition of SAU function may violate I ² C specification		-	x	
A6	Generated I ² C Stop condition of SAU function may violate I ² C specification		-	x	

- ✓: Not applicable
- x: Applicable
- : Not checked

B) Description of Operating Precautions for AP3-78K0RKX3A-EE

Table B-1 No. A1 Missing API Reference

<p><u>Details</u></p> <p>The online help consisting of User Guide and API reference is not available.</p> <p><u>Workaround</u></p> <p>To get a list of the possible API functions, please generate an output report. The output report includes two files generated in the project folder:</p> <ul style="list-style-type: none">- function.html -> summary of all API functions (used and unused functions of the current application)- macro.html -> summary of all preprocessor symbols

Table B-2 No. A2 TAUx: 0% and 100% duty cycle on PWM not selectable

<p><u>Details</u></p> <p>When selecting (multiple) PWM output a duty cycle of 0% or 100% can not be selected in the slave channel menu.</p> <p><u>Workaround</u></p> <p>Call "TAUx_Channely_ChangeDuty" with the duty cycle of 0 or 100 as parameter at the beginning of the program.</p> <p>Where x is the TAU and y is the TAU channel number.</p>
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Table B-3 No. A3 Maximum Baudrate in CSImn is set to wrong value

<p><u>Details</u></p> <p>The maximal configurable Baudrate is set to 400000 bps, even if faster Baudrate is possible by the controller settings.</p> <p><u>Workaround</u></p> <p>Manually set up the correct Baudrate after generating Applilet code.</p>

Table B-4 No. A4 Unused modules not erased from project file

<p><u>Details</u></p> <p>If a peripheral is disabled after it was used and code was generated at least once, the regarding source files are not excluded from the project.</p> <p><u>Workaround</u></p> <p>Manually exclude / erase the source files from the IAR Embedded Workbench project.</p>

Table B-5 No. A5 Generated I²C Start condition function of SAU may violate I²C specification

<p><u>Details</u></p> <p>Applilet generated code to send the start condition (<code>void IICxy_StartCondition(void)</code>) of an I²C frame does not take care to wait for $t_{HD;STA}$, specified by the I²C specification. The specified wait times are 4μs for Normal and 0.6μs for Fast mode.</p> <p><u>Workaround</u></p> <p>Set up a wait loop between “clear IICxy SDA” and “clear IICxy SCL”, which meets the I²C specification, manually.</p>
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Table B-6 No. A6 Generated I²C Stop condition function of SAU may violate I²C specification

<p><u>Details</u></p> <p>Applilet generated code to send the stop condition (<code>void IICxy_StopCondition(void)</code>) of an I²C frame does not take care to wait for $t_{SU;STO}$, specified by the I²C specification. The specified wait times are 4μs for Normal and 0.6μs for Fast mode.</p> <p><u>Workaround</u></p> <p>Set up a wait loop between “set IICxy SCL” and “set IICxy SDA”, that meets the I²C specification, manually.</p>

C) Supported Devices

ROM [KB]	78K0R/KE3-A 64 pins
128	μPD78F1018
96	μPD78F1017
64	μPD78F1016

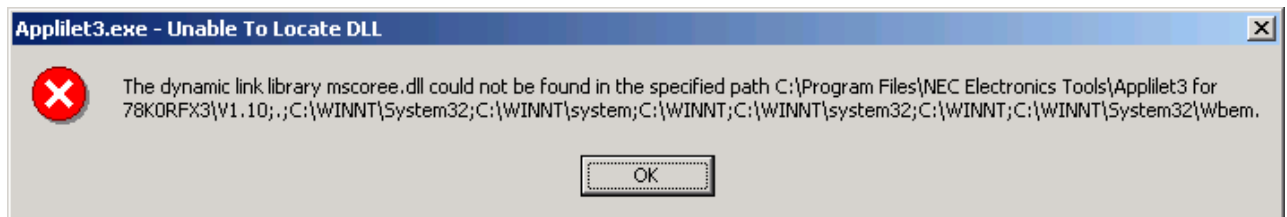
Supported
Not supported

D) Supported Operating Systems

Applilet supports Windows XP, Windows Vista and Windows 7.

For operation the Microsoft .NET Framework Version 2.0 Redistributable Package is necessary.

If the Microsoft .NET Framework Version 2.0 Redistributable Package is not installed, the following Windows error message will occur during application start:



The Microsoft .NET Framework Version 2.0 Redistributable Package can be downloaded from the Microsoft

Corporation WEB Site: <http://www.microsoft.com/downloads>

Download Package: .NET Framework Version 2.0 Redistributable Package (x86)

And, please use .NET Framework version 2.0 Redistributable package with latest patches.

E) Supported Development Environments

Renesas Electronics Development Tools	
Product Name	Version
Project Manager PM+	V6.30 or later
CC78K0	V4.00 or later
RA78K0	V4.01 or later
ID78K0R-QB	V3.10 or later
Device File Package DF78F0588	V2.00 or later

IAR Systems Development Tools	
Product Name	Version
Embedded Workbench for 78K EW78K	V4.62a or later

F) Valid Specification

Item	Date published	Document No.	Document Title
1	May 2010	R01UH0003EJ0200	78K0R/Kx3-A User's Manual

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H) Revision History

Item	Date published	Document No.	Comment
1	04-Feb-2010	U20234EE1V0IF00	First release.
2	31-May-2010	R20TU0008ED0200_K0RKx3AURN	Update
3	05-Oct-2010	R20TU0008ED0201_K0RKx3AURN	Item A2 added
4	05-Jan-2011	R20TU0008ED0202_K0RKx3AURN	Item A3 and A4 added
5	20-Jun-2011	R20TU0008ED0203_K0RKx3AURN	Item A5 and A6 added

