Gmail **Spyros Daskalakis <daskalakispiros@gmail.com>**

Question about FT2232H UART Pins

3 messages

Spyros Daskalakis <spyridon.daskalakis@mixedsignalsystems.com> 23 December 2020 at 11:10
To: support1@ftdichip.com

Dear all,

We are engineers working with a FT2232H chip. Our project requires the use of UART on one channel without the handshaking (only the use of TX and RX pins).
I would like to ask you if the rest of IO pins (RTS#, CTS#, DRT#...TXLED#) could be set as GPIO pins? So at the same time to have two pins as UART TX, RX and rest as GPIO.
Is there any application document available referring to the above?
I look forward to hearing from you.

Kind regards,
Spiros

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Spiros Daskalakis

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Tel: +44 (0) 7783153933

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Support8 <support8@ftdichip.com> 23 December 2020 at 16:44
To: Spyros Daskalakis <spyridon.daskalakis@mixedsignalsystems.com>

Hello Spiros,

Note that with no hardware flow control there can be data loss at high speeds (say above 115k baud).

Some of the unused UART pins can be used as bit bang but would require using the D2XX Drivers.

There is an option to use unused flow control pins of the UART ports.

Reference the D2XX Programmer's Guide:

FT_SetDtr

FT_ClrDtr

FT_SetRts

FT_ClrRts

FT_GetModemStatus

This would allow your application to control these signals independently of the TX/RX signals.

The other option is to use the unused FT2232H channel or even FT4232H.

The unused ports could be used for GPIO.

Note that the bit bang documents are not specifically for FT2232H but the same principles apply:

Bit Bang Modes for the FT232R and FT245R

AN_373 Bit-Bang Modes for the FT-X Series

Can you please complete the attached project survey form including any application details.

Best Regards,

David Paterson

Customer Support Engineer

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From: Spyros Daskalakis [mailto:spyridon.daskalakis@mixedsignalsystems.com]
Sent: 23 December 2020 11:10
To: Support1
Subject: Question about FT2232H UART Pins

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Spyros Daskalakis <spyridon.daskalakis@mixedsignalsystems.com> 23 December 2020 at 18:45
To: Kieran O'Leary <kieran.oleary@mixedsignalsystems.com>

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5 attachments

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