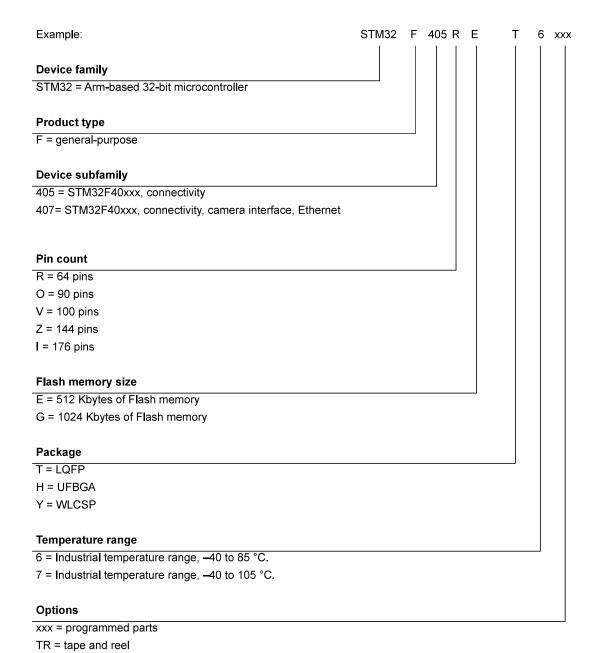
7 Ordering information

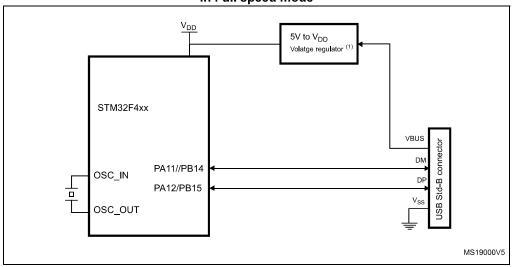


For a list of available options (speed, package, etc.) or for further information on any aspect of this device, please contact your nearest ST sales office.

Appendix A Application block diagrams

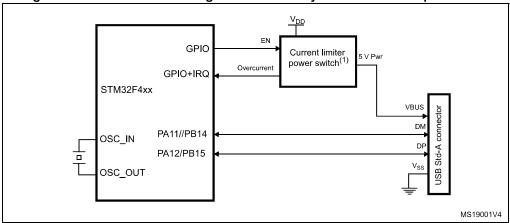
A.1 USB OTG full speed (FS) interface solutions

Figure 93. USB controller configured as peripheral-only and used in Full speed mode



- 1. External voltage regulator only needed when building a V_{BUS} powered device.
- The same application can be developed using the OTG HS in FS mode to achieve enhanced performance thanks to the large Rx/Tx FIFO and to a dedicated DMA controller.

Figure 94. USB controller configured as host-only and used in full speed mode



- The current limiter is required only if the application has to support a V_{BUS} powered device. A basic power switch can be used if 5 V are available on the application board.
- The same application can be developed using the OTG HS in FS mode to achieve enhanced performance thanks to the large Rx/Tx FIFO and to a dedicated DMA controller.

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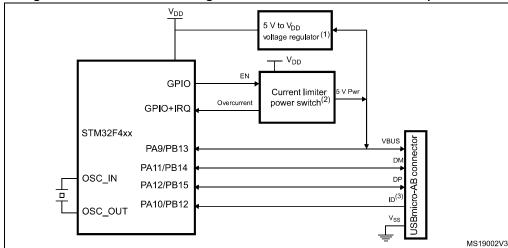
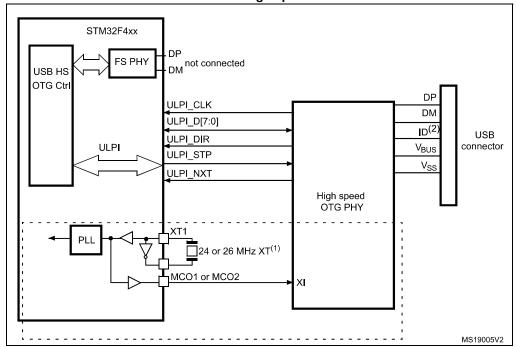


Figure 95. USB controller configured in dual mode and used in full speed mode

- 1. External voltage regulator only needed when building a $\ensuremath{V_{BUS}}$ powered device.
- The current limiter is required only if the application has to support a V_{BUS} powered device. A basic power switch can be used if 5 V are available on the application board.
- 3. The ID pin is required in dual role only.
- The same application can be developed using the OTG HS in FS mode to achieve enhanced performance thanks to the large Rx/Tx FIFO and to a dedicated DMA controller.

A.2 USB OTG high speed (HS) interface solutions

Figure 96. USB controller configured as peripheral, host, or dual-mode and used in high speed mode



It is possible to use MCO1 or MCO2 to save a crystal. It is however not mandatory to clock the STM32F40xxx with a 24 or 26 MHz crystal when using USB HS. The above figure only shows an example of a possible connection.

2. The ID pin is required in dual role only.

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