CONTENTS

Firmware upload (Drag and drop)

1)Configure the board for serial downloader mode.

Set SW7 switch to OFF-OFF-OFF-ON.

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| C:\Users\Enrico\AppData\Local\Microsoft\Windows\INetCache\Content.Word\SW4.jpg |

2) Connect the USB cable to the DAP-Link.

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3) Press SW3 to reset the processor.

4)Drag and drop the binary image located in the following path: “IMX\_MULTIPROTOCOL/FIRMWARE/DRAG&DROP/IMX\_MULTIPROTOCOL\_vXX.bin” to the RT-1020-EVK drive.

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| C:\Users\Enrico\AppData\Local\Microsoft\Windows\INetCache\Content.Word\Drag_and_DROP.JPG |

5)Put the board back in internal boot mode.

Set SW7 switch to OFF-OFF-ON-OFF.

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| C:\Users\Enrico\AppData\Local\Microsoft\Windows\INetCache\Content.Word\SW3.jpg |

6)Press SW3 to reset the processor and your application should boot.

7) The GREEN Led on RT-1020-EVK should blink four time every 2 seconds.

If device does not blink, repeat the procedure from step 1.

USB CONNECTON

1)Unplug the DAP-Link USB cable.

2)Be sure that J1 is set in the following position.

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3) Plug the USB connector on the top of RT-1020-EVK board.

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| C:\Users\Enrico\AppData\Local\Microsoft\Windows\INetCache\Content.Word\IMG20210521210447.jpg |

4)Device should be detected from your computer.

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| C:\Users\Enrico\AppData\Local\Microsoft\Windows\INetCache\Content.Word\ComFOUND.JPG |

5) Open Hercules SETUP utility software. Set the serial parameters as follow:

NAME: the com of your device.

BAUD: 115200

DATA size: 8

Parity: none

Handshake: OFF

Mode: Data

5) Press the OPEN button.

*NOTE:*

The GREEN led outputs the status of the USB connection.

* 4 blink continuosly: The board is running correctly the application firmware but the USB connection is not established.
* 2 blink continuosly: The board is running correctly the application firmware and the USB connection to the device is performed.

6)If device is connected, you should see and output string from the RT-1020-EVK.

*NOTE:*

* If device does not receive any commands, it periodically indicates to the user that it is connected and running via a text message.

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SERIAL COMMUNICATION EXAMPLE: