Multi Function... Pin Settings

The Multi-Function dialog gives the user access to the configuration settings pertaining to the fault pins on the device. The configuration settings allow users to:
› Enable or disable pins
› Map specific faults to external pins
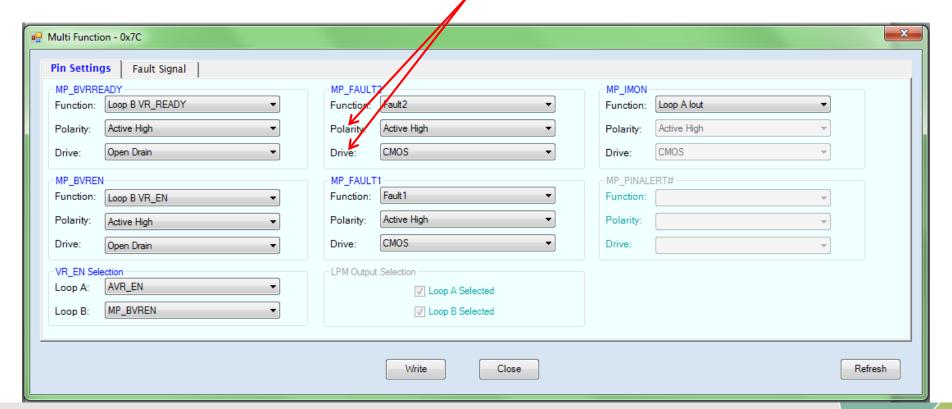› Configure how the pins are driven for system compatibility
› Firmware functions

For all pins there are some common settings

Drive
– Output Buffer type to be use for the pin
– Open Drain: can pull to GND, need an external resistor for pullup
– CMOS: Actively driven output signal

Polarity
– Logic signal polarity for the pin. Should it be High or Low level when the related signal is active.

Multi Function... Pin Settings

Depending on selected part some selections may be grayed out and not available.

MP_BVRREADY Function
– Function that will be mapped to **MP_BVRREADY** pin

MP_BVREN Function
– Function that will be mapped to **MP_BVREN** pin

VR_EN Selection
– Pin that will be use for VR_EN function for a specific loop

MP_FAULT2 Function
– Function that will be mapped to **MP_FAULT2** pin

MP_FAULT1 Function
– Function that will be mapped to **MP_FAULT1** pin
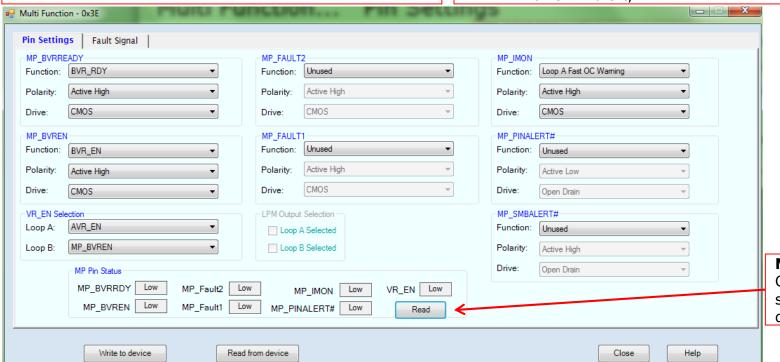
LPM Output Selection
– Low power mode selector that asserts the signal when the selected loop is either disabled or in PS4 active only when LPM is selected for a pin.

MP_IMON Function
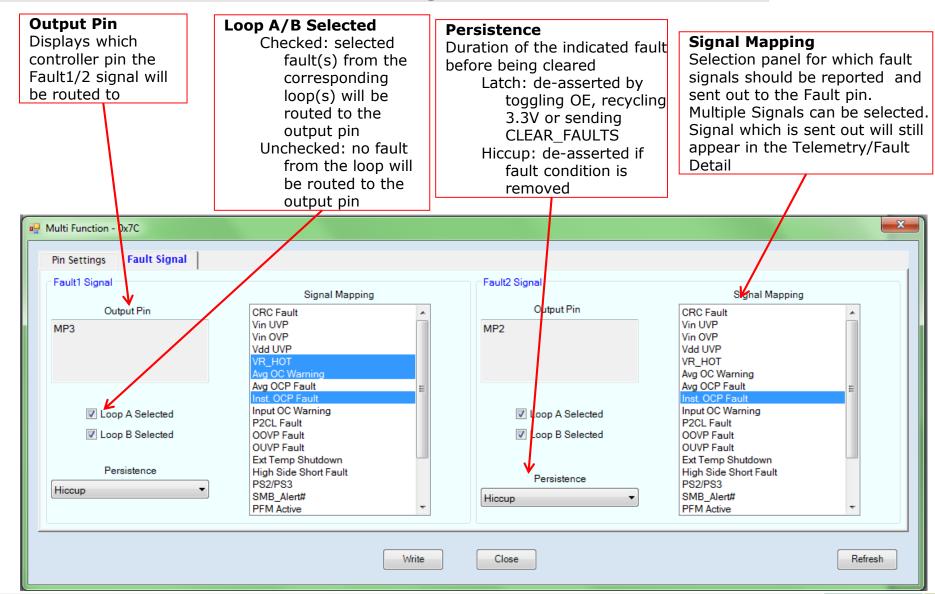– Function that will be mapped to **MP_IMON** pin

MP_PINALERT# Function
– Power In alert,

MP Pin status
Click Read button to see status of the different Pins

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Multi Function... Fault Signal

Output Pin
Displays which controller pin the Fault1/2 signal will be routed to

Loop A/B Selected
Checked: selected fault(s) from the corresponding loop(s) will be routed to the output pin
Unchecked: no fault from the loop will be routed to the output pin

Persistence
Duration of the indicated fault before being cleared
Latch: de-asserted by toggling OE, recycling 3.3V or sending CLEAR_FAULTS
Hiccup: de-asserted if fault condition is removed

Signal Mapping
Selection panel for which fault signals should be reported and sent out to the Fault pin. Multiple Signals can be selected. Signal which is sent out will still appear in the Telemetry/Fault Detail