**Microchip PolarFire HSIO IND IBIS Model**

* **HSIO differential**

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| **Ibis File Name** | **Ibis File Rev** | **Date** |
| polarfire\_hsio\_diff.ibs | 2.3 | Nov 22 2023 |

**Release Notes:**

* Added mixed mode receiver support:
* Input buffers: HSTL12\_18\_ODT-OFF,HSTL12\_15\_ODT-OFF,HSTL12\_135\_ODT-OFF, HSTL135\_18\_ODT-OFF,HSTL135\_15\_ODT-OFF,HSTL15\_18\_ODT-OFF, HSUL12\_18\_ODT-OFF,HSUL12\_18\_ODT-60,HSUL12\_18\_ODT-120,HSUL12\_18\_ODT-240, HSUL12\_15\_ODT-OFF,HSUL12\_15\_ODT-60,HSUL12\_15\_ODT-120,HSUL12\_15\_ODT-240, HSUL12\_135\_ODT-OFF,HSUL12\_135\_ODT-60,HSUL12\_135\_ODT-120,HSUL12\_135\_ODT-240, POD12\_18\_ODT-OFF,POD12\_15\_ODT-OFF,POD12\_135\_ODT-OFF,SSTL135\_18\_ODT-OFF, SSTL135\_15\_ODT-OFF,SSTL15\_18\_ODT-OFF

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| **Ibis File Name** | **Ibis File Rev** | **Date** |
| polarfire\_hsio\_diff.ibs | 2.2 | June 20 2023 |

**Release Notes:**

* Added VCM-LOW configuration support for LVDS18, RSDS18, MINILVDS18, SUBLVDS18,PPDS18,SLVS18,HCSL18 receivers
* Updated Vinl and Vinh values of LVDS18, SLVS18 receivers

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| **Ibis File Name** | **Ibis File Rev** | **Date** |
| polarfire\_hsio\_diff.ibs | 2.1 | Sept 14 2022 |

**Release Notes:**

* Added MPF050 device with RLC package data in [Package] section
* Added LPDDR4 LVSTL11D I/O standard
* Added RLC package type of FCG784N for MPF300T/TS device
* Update RLC values of 200T-FCVG484 device package data

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| **Ibis File Name** | **Ibis File Rev** | **Date** |
| polarfire\_hsio\_diff.ibs | 2.0 | Oct 29 2018 |

**Release Notes:**

Initial Version

* **HSIO single-ended**

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| **Ibis File Name** | **Ibis File Rev** | **Date** |
| polarfire\_hsio\_se.ibs | 2.2 | Nov 22 2023 |

**Release Notes:**

* Added mixed mode receiver support:
* Input buffers: LVCMOS12\_135\_ODT-OFF,LVCMOS12\_135\_ODT-120,LVCMOS12\_135\_ODT-240,HSTL12\_18\_ODT-OFF,HSTL12\_15\_ODT-OFF,HSTL12\_135\_ODT-OFF, HSTL135\_18\_ODT-OFF,HSTL135\_15\_ODT-OFF,HSTL15\_18\_ODT-OFF, HSUL12\_18\_ODT-OFF,HSUL12\_18\_ODT-60,HSUL12\_18\_ODT-120,HSUL12\_18\_ODT-240, HSUL12\_15\_ODT-OFF,HSUL12\_15\_ODT-60,HSUL12\_15\_ODT-120,HSUL12\_15\_ODT-240, HSUL12\_135\_ODT-OFF,HSUL12\_135\_ODT-60,HSUL12\_135\_ODT-120,HSUL12\_135\_ODT-240, POD12\_18\_ODT-OFF,POD12\_15\_ODT-OFF,POD12\_135\_ODT-OFF,SSTL135\_18\_ODT-OFF, SSTL135\_15\_ODT-OFF,SSTL15\_18\_ODT-OFF

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| **Ibis File Name** | **Ibis File Rev** | **Date** |
| polarfire\_hsio\_se.ibs | 2.1 | Sept 14 2022 |

**Release Notes:**

* Added MPF050 device with RLC package data in [Package] section
* Component name change to PolarFire
* Added RLC package type of FCG784N for MPF300T/TS device
* Added LPDDR4 LVSTL11 I/O standard
* Update RLC values of 200T-FCVG484 device package data

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| **Ibis File Name** | **Ibis File Rev** | **Date** |
| polarfire\_hsio\_se.ibs | 2.0 | Oct 29 2018 |

**Release Notes:**

Initial Version