

# RLDRAM II Controller with UniPHY Intel® FPGA IP and RLDRAM 3 UniPHY Intel® FPGA IP Core Release Notes

2019.07.01

RN-1115



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If a release note is not available for a specific IP version, the IP has no changes in that version. For information on IP update releases up to v18.1, refer to the *Intel® Quartus® Prime Design Suite Update Release Notes*.

IP versions are the same as the Intel Quartus Prime Design Suite software versions up to v19.1. From Intel Quartus Prime Design Suite software version 19.2 or later, IP cores have a new IP versioning scheme.

The IP versioning scheme (X.Y.Z) number changes from one software version to another. A change in:

- X indicates a major revision of the IP. If you update your Intel Quartus Prime software, you must regenerate the IP.
- Y indicates the IP includes new features. Regenerate your IP to include these new features.
- Z indicates the IP includes minor changes. Regenerate your IP to include these changes.

## Related Information

[Intel Quartus Prime Design Suite Update Release Notes](#)

## RLDRAM II Controller with UniPHY FPGA IP and RLDRAM 3 UniPHY FPGA IP Core v19.1.0

Table 1: v19.1.0 2019.07.01

Intel Quartus Prime Version	Description	Impact
19.2	Verified in the Intel Quartus Prime software v19.2.	—

## RLDRAM II Controller with UniPHY FPGA IP and RLDRAM 3 UniPHY FPGA IP Core v19.1

Table 2: v19.1 April 2019

Description	Impact
Verified in the Intel Quartus Prime software v19.1	—

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- [External Memory Interface Handbook](#)
- [Errata for RLDRAM II Controller with UniPHY and RLDRAM 3 PHY-Only IP in the Knowledge Base](#)

## RLDRAM II Controller with UniPHY Intel FPGA IP and RLDRAM 3 UniPHY Intel FPGA IP Core v18.1

Table 3: v18.1 September 2018

Description	Impact
Verified in the Intel Quartus Prime software v18.1	—

### Related Information

- [External Memory Interface Handbook](#)
- [Errata for RLDRAM II Controller with UniPHY and RLDRAM 3 PHY-Only IP in the Knowledge Base](#)

## RLDRAM II Controller with UniPHY Intel FPGA IP and RLDRAM 3 UniPHY Intel FPGA IP Core v18.0

Table 4: v18.0 May 2018

Description	Impact
Verified in the Intel Quartus Prime software v18.0	—

### Related Information

- [External Memory Interface Handbook](#)
- [Errata for RLDRAM II Controller with UniPHY and RLDRAM 3 PHY-Only IP in the Knowledge Base](#)

## RLDRAM II Controller with UniPHY and RLDRAM 3 PHY-Only IP Core v17.1

Table 5: v17.1 November 2017

Description	Impact
Verified in the Intel Quartus Prime software v17.1.	—

**Related Information**

- [External Memory Interface Handbook](#)
- [Errata for RLDRAM II Controller with UniPHY and RLDRAM 3 PHY-Only IP in the Knowledge Base](#)

## RLDRAM II Controller with UniPHY and RLDRAM 3 PHY-Only IP Core v17.0

Table 6: v17.0 May 2017

Description	Impact
Verified in the Quartus Prime software v17.0	—

**Related Information**

- [External Memory Interface Handbook](#)
- [Errata for RLDRAM II Controller with UniPHY and RLDRAM 3 PHY-Only IP in the Knowledge Base](#)

## RLDRAM II Controller with UniPHY and RLDRAM 3 PHY-Only IP Core v16.1

Table 7: v16.1 November 2016

Description	Impact
Verified in the Quartus Prime software v16.1	—

**Related Information**

- [External Memory Interface Handbook](#)
- [Errata for RLDRAM II Controller with UniPHY and RLDRAM 3 PHY-Only IP in the Knowledge Base](#)