

## **PRELIMINARY VERSION – RELEASE NOTES**

### Prelim Release (v0.3)

V0.3 is the latest release of the preliminary IBIS-AMI model for ADRV904X family of transceivers. The following new features were added to this release –

1. Updated the model to resolve simulation issues while using higher number of samples per symbol during simulation. The user can now set the number of samples per symbol to max value of 64.
2. Updated the ADRV9025 package model for the serializer and deserializer. This model now includes a correction factor that gets the estimate closer to ADRV904X laminate expectations. This package includes the bumps and balls.

### Known Issues/Limitations –

Since this is a preliminary model, there are several limitations to be aware of while using this model –

1. The final ADRV904X package model for the serializer and deserializer have not been incorporated. The current model version incorporates an approximate model of ADRV904X.
2. This model should only be used for use cases that have lane rates between 16.25Gbps to 32.44Gbps.
3. The JRx block has a VGA in between the CTLE and the DFE that can be used to add additional amplification to incoming signals. The VGA gain is optimized such that the input to DFE stays within a specific voltage range. The current model does not support this. This will be addressed in a future release.
4. ADI implements a tracking algorithm to balance the setup and hold times. The improvements from this algorithm are not yet incorporated into this model. This would be added in a future release.
5. This model is only for nominal process skew, supply, and room temperature.
6. The user can see simulation errors when a higher number of samples per symbol is used during simulation. ADI recommends to reduce this parameter to 64 or lower to resolve this error.

### Previous releases –

V0.1 –

Initial release

V0.2 –

1. Added knobs to change the ADRV904X JTx swing.
2. Added ADRV9025 package model for the serializer and deserializer. This package includes the bumps and balls.