



Gowin I2C Master and Slave Reference Design

Release Note

RN504-1.5E,09/30/2019

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Revision History

| Date | Version | Description |
|------------|---------|--|
| 1/17/2018 | 1.1E | Share I2C code with users; delete I2C generation with IP Core Generator. |
| 03/28/2019 | 1.2E | Supported products updated. |
| 05/08/2019 | 1.3E | Changed AXI interface to SRAM interface. |
| 07/16/2019 | 1.4E | Interface configuration added. |
| 09/30/2019 | 1.5E | I2C Master released as an IP; I2C Slave released as an open source reference design. |

Contents

| | |
|---------------------------------|----------|
| Contents | i |
| About This Release | 1 |
| Function | 2 |
| Platform Supported | 3 |
| Documents | 4 |

About This Release

This release note contains Gowin I2C Master IP and Slave reference design.

Gowin I2C Master IP and Slave reference design are available at Gowin Website. It can be used for simulation and instantiation of the overall synthesis, placement and routing after user design.

Function

The released IP functions and improvement items are as follows:

| Function | Description |
|---|--|
| Front-end synthesis tool: SynplifyPro, O-2018.09G-SP1-1-Beta1 | |
| Support I2C Master | Register access, data read/write, etc. |
| Back-end place and routing tool: GoWinYunYuan_V1.9.1.01Beta | |
| Improvement Item | – |
| Devices Supported | <ul style="list-style-type: none"> ● GW1N-1 ● GW1N-2 ● GW1N-2B ● GW1N-4 ● GW1N-4B ● GW1N-6 ● GW1N-9 ● GW1N-1S ● GW1NR-4 ● GW1NR-4B ● GW1NR-9 ● GW1NS-2 ● GW1NS-2C ● GW1NSR-2 ● GW1NSR-2C ● GW1NZ-1 ● GW2A-18 ● GW2A-55 ● GW2AR-18 |

Platform Supported

The corresponding software of the released IPs supports the following platforms:

| | |
|---------|---------------------------------------|
| Windows | Windows 7 Ultimate edition (64-bit) |
| Linux | Red hat Enterprise Linux 6/7 (64-bit) |

Documents

The released IP manuals are listed in the table below. You can download the PDF manuals at Gowin website or read online.

| Documents | |
|--|-------------|
| Gowin I2C Master and Slave User Guide | Online, PDF |
| Gowin I2C Master and Slave Reference Design Release Note | Online, PDF |

