**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V29**

This is firmware for the GCU product **GC2115 R1.00**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X [New]](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X_NEW)

Repository: [mnm\_gc2115](https://bitbucket.org/sedemac/mnm_gc2115)

Branch: 1. [develop](https://bitbucket.org/sedemac/mnm_gc2115/branch/develop)

2. [master](https://bitbucket.org/sedemac/mnm_gc2115/branch/master)

Commit ID:

1. [7aac40d](https://bitbucket.org/sedemac/mnm_gc2115/commits/7aac40d0db327f63e08f02f8ac605c15cf65b65c) (develop)
2. [7aa56c4](https://bitbucket.org/sedemac/mnm_gc2115/commits/7aa56c4a5167b1057e8c5775fff817a01bdc3370) (master)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [ef947a7](https://bitbucket.org/sedemac/gc2k-bsp/commits/ef947a75df6c024aca99d93df3cfc1f4fe926b8f)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: a6bf1ec8eed2aee53af378c2d504f73b**

**Release Date: 26th June 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast, SM0015556- 1.28V with 50% Contrast**

**Toolchain version used:** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** N/A

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes:**
2. Fixed GC2115-114, GC2115-115
3. **Enhancement and New Features:**
4. GC2115-116
5. **Known Bugs/ Issues: N/A**
6. **Others: N/A**

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| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  26 June 2024 | Reviewed By:  Ramachandran S  Engineer, Embedded Software  26 June 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V28**

This is firmware for the GCU product **GC2115 R1.00**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X [New]](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X_NEW)

Repository: [mnm\_gc2115](https://bitbucket.org/sedemac/mnm_gc2115)

Branch: [develop](https://bitbucket.org/sedemac/mnm_gc2115/branch/develop)

Commit ID: [f976169](https://bitbucket.org/sedemac/mnm_gc2115/commits/f9761693fc797fbf4eac9b6a04536cc134fc22c0)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [ef947a7](https://bitbucket.org/sedemac/gc2k-bsp/commits/ef947a75df6c024aca99d93df3cfc1f4fe926b8f)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: 440aee1072dfbe48b983982218af5b80**

**Release Date: 26th June 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast, SM0015556- 1.28V with 50% Contrast**

**Toolchain version used:** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** N/A

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes:**
2. Fixed active profile reset bug.
3. Removed all warnings.
4. **Enhancement and New Features: N/A**
5. **Known Bugs/ Issues: N/A**
6. **Others: N/A**

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| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  26 June 2024 | Reviewed By:  Sriker Shikari  Engineer, Embedded Software  26 June 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V27**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [36c97b6](https://bitbucket.org/sedemac/gc2111_renesas/commits/36c97b6073ffcbdd465bebe4464ac58024a3fb65)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: cd051b5705a15caed97fa319072c6681**

**Release Date: 21st June 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast, SM0015556- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes :** 
   1. **Fixed GC2115-111**
2. **Enhancement and New Features: N/A**
3. **Known Bugs/ Issues: N/A**
4. **Others: N/A**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  21 June 2024 | Reviewed By:  Aditya Kasar  Engineer, Embedded Software  21 June 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V26**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [7d97691](https://bitbucket.org/sedemac/gc2111_renesas/commits/7d976910ff3e4b55eb21e213447737f7ec973234)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: 8dfd9dd14fb414d71eec76d56f7b48fd**

**Release Date: 21st June 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast, SM0015556- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes :** 
   1. **Reverted changes made for GC2115-53, changes are not required**
2. **Enhancement and New Features:**
   1. **Updated gen OV shutdown threshold max value from 270 to 285 V**
3. **Known Bugs/ Issues: N/A**
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  21 June 2024 | Reviewed By:  Aditya Kasar  Engineer, Embedded Software  21 June 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V25**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [37f048e](https://bitbucket.org/sedemac/gc2111_renesas/commits/37f048e978c2857a6ea7fb31e2978d145c6b65e5)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: 2da41a89bd8c0f7239fa9681de5537dd**

**Release Date: 19th June 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast, SM0015556- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes :** 
   1. **GC2115-53**
2. **Enhancement and New Features:**
   1. **GC2115-108, GC2115-109, GC2115-110**
3. **Known Bugs/ Issues: N/A**
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  19 June 2024 | Reviewed By:  Soujanya Mulik  Engineer, Embedded Software  19 June 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V24**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [d26dbf7](https://bitbucket.org/sedemac/gc2111_renesas/commits/d26dbf7afe828f259d42a89f18a542709b5eda3d)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: 32525b639774c7f83d12e304d017fd2e**

**Release Date: 18th June 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast, SM0015556- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes :** 
   1. **GC2115-84, GC2115-86**
2. **Enhancement and New Features: N/A**
3. **Known Bugs/ Issues: N/A**
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  18 June 2024 | Reviewed By:  Soujanya Mulik  Engineer, Embedded Software  18 June 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V23**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [e1e0ab9](https://bitbucket.org/sedemac/gc2111_renesas/commits/e1e0ab9bdd44348a7cde6fd48fcb6a8b035982ca)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: 3a9be179b36776a05d5cd39ba4c14b08**

**Release Date: 14th June 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast, SM0015556- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes :** 
   1. **GC2115-100**
   2. **Issue where Firmware flashing event would not be logged for the first different firmware flash after EEPROM erase**
2. **Enhancement and New Features:**
   1. **GC2115-99 and GC2115-101 to GC2115-103**
3. **Known Bugs/ Issues: N/A**
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  14 June 2024 | Reviewed By:  Ramachandran S  Engineer, Embedded Software  14 June 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V22**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [e1063ac](https://bitbucket.org/sedemac/gc2111_renesas/commits/e1063ac1d8a62d43697d297a4b0888d1a1a7ede3)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: 719e5f2b5aba6d4870dc7aa164821b64**

**Release Date: 11th June 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast, SM0015556- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes :** 
   1. **Fixed issue with Extended Overload functionality**
2. **Enhancement and New Features:**
   1. **Output of Battery/Supercap UV/OV alarm is set to battery unhealthy/ supercap unhealthy depending on source selection as per additional requirement in GC2115-85**
3. **Known Bugs/ Issues: N/A**
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  11 June 2024 | Reviewed By:  Ramachandran S  Engineer, Embedded Software  11 June 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V21**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [d5ca676](https://bitbucket.org/sedemac/gc2111_renesas/commits/d5ca676815be5cea3cee491440bb398ae6ad84dd)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: 81a7509949e7ce1cb0cbe863533e18dd**

**Release Date: 8th June 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast, SM0015556- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes :** 
   1. **GC2115-93, GC2115-94 and GC2115-96**
2. **Enhancement and New Features:**
   1. **GC2115-95**
3. **Known Bugs/ Issues: N/A**
4. **Others:** 
   1. EGR faults found to be working after the rig is given common ground with Omicron

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  8 June 2024 | Reviewed By:  Ramachandran S  Engineer, Embedded Software  8 June 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V20**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [feature/canopy\_temp\_sens](https://bitbucket.org/sedemac/gc2111_renesas/branch/feature/canopy_temp_sens)

Commit ID: [cdb4ab5](https://bitbucket.org/sedemac/gc2111_renesas/commits/cdb4ab5d4acd8157615ebc227bbd7d126762dd59)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: e3ebdb66174f838c4b0cc1a03a098d55**

**Release Date: 4th June 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes :** 
   1. **GC2115-88 and GC2115-89 and GC2115-92**
2. **Enhancement and New Features:**
   1. **GC2115-86 and GC2115-87 and GC2115-90**
3. **Known Bugs/ Issues:**
4. **Others: N/A**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  4 June 2024 | Reviewed By:  Soujanya Mulik  Engineer, Embedded Software  4 June 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V19**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [feature/canopy\_temp\_sens](https://bitbucket.org/sedemac/gc2111_renesas/branch/feature/canopy_temp_sens)

Commit ID: [b51ec8c](https://bitbucket.org/sedemac/gc2111_renesas/commits/b51ec8ce4c846c5fe539db3989c49f800241cdd3)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: e55405b719e464f35172b2ed290c0704**

**Release Date: 31st May 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes : N/A**
2. **Enhancement and New Features:**
   1. **GC2115-76 to GC2115-80 and GC2115-84 and GC2115-85**
3. **Known Bugs/ Issues:**
   1. **Password access still allows editing through password 0000.**
4. **Others: N/A**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  31 May 2024 | Reviewed By:  Ramachandran S  Engineer, Embedded Software  31 May 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V18**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/commits/branch/gc2115_renesas_mnm)

Commit ID: [cde32bd](https://bitbucket.org/sedemac/gc2111_renesas/commits/cde32bd324c6ca6b38518aa35c35f02244ecff0e)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: 5ffcae5dee408dd49024bfa75187e812**

**Release Date: 27th May 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes : N/A**
2. **Enhancement and New Features:**
   1. **GC2115-65 with code review. Please refer to package for registers implemented in Indus modbus map.**
3. **Known Bugs/ Issues:**
4. **Others: N/A**

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| Prepared By:  Ramachandran S  Engineer, Embedded Software  27 May 2024 | Reviewed By:  Soujanya M  Engineer, Embedded Software  27 May 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V17**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [feature/modbus\_fun\_addition](https://bitbucket.org/sedemac/gc2111_renesas/branch/feature/modbus_fun_addition)

Commit ID: [c0194bd](https://bitbucket.org/sedemac/gc2111_renesas/commits/c0194bd1d3e027350d54607cfd00ae2cf656beb1)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: b2cb572c2223e07fd89f5201414b23a0**

**Release Date: 22nd May 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 12.2.1.arm-12-mpacbti-34

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes : N/A**
2. **Enhancement and New Features:**
   1. **GC2115-65. Please refer to package for registers implemented in Indus modbus map.**
3. **Known Bugs/ Issues:**
4. **Others: N/A**

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| Prepared By:  Aditya Joshi  Engineer, Embedded Software  22 May 2024 | Reviewed By:  Ramachandran S  Engineer, Embedded Software  22 May 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V16**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [c1b7313](https://bitbucket.org/sedemac/gc2111_renesas/commits/c1b7313b6cb0056aef32cc3c837bbd743a01f535)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: d1e1d2b77dd52063ad75c0873f940228**

**Release Date: 10th May 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes :** [**GC2115-56**](https://sedemac.atlassian.net/browse/GC2115-56)
2. **Enhancement and New Features:**
   1. **Change of EGR timers handling to seconds, from minutes for** [**GC2115-56**](https://sedemac.atlassian.net/browse/GC2115-56) **fix.**
   2. **Additional Digital Output for automation test support (DIG J to DIG P)**
3. **Known Bugs/ Issues:**
4. **Others: GC2115\_R0V15 was not released, so please refer to change log of R0\_V15 also for testing**

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| Prepared By:  Aditya Kasar  Engineer, Embedded Software  10 May 2024 | Reviewed By:  Ramachandran S  Engineer, Embedded Software  10 May 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V15**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [d9bf798](https://bitbucket.org/sedemac/gc2111_renesas/commits/d9bf798ebb0c6c37a3b44f327d4472b2d7f89801)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [b944ef7](https://bitbucket.org/sedemac/gc2k-bsp/commits/b944ef7d18d847a60c74fb3298de04099dcc358e)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: 4e8e3df278f0591cde3834fd55e29ff7**

**Release Date: 7th May 2024**

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes :**
   1. **DM1 Screen Count Issue**
2. **Enhancement and New Features:**
   1. **Change of CAN Map**
   2. **Change of MODBUS Map**
   3. **Inclusion of MB Count in Product Specific Section**
   4. **Change of UI ranges according to requirement**
   5. **Addition of Dig O/P “Super Capacitor Unhealthy”**
   6. **Enabling STB detection on alarm acknowledging (Ack) by the user**
3. **Known Bugs/ Issues:** [**GC2115-56**](https://sedemac.atlassian.net/browse/GC2115-56)
4. **Others:** NA

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| Prepared By:  Aditya Kasar  Engineer, Embedded Software  10 May 2024 | Reviewed By:  Ramachandran S  Engineer, Embedded Software  10 May 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V14**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [7b7e05f](https://bitbucket.org/sedemac/gc2111_renesas/commits/7b7e05f8c7d98573bac6cdca9479585d6e0c50fc)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/branch/improvement/STB_fault_detection)

Commit ID: [c6599ef](https://bitbucket.org/sedemac/gc2k-bsp/commits/c6599ef9bcf522e9ded8f380470c6866582b7fd6)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file: 945a9b943ebf9d2c92d845402fa68428**

**Release Date:** 19 April 2024

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: 15046**

**Change log: -**

1. **Bug Fixes : GC2115-58, GC2115-55, GC2115-51, GC2115-10**
2. **Enhancement and New Features:**
   1. EGR Fault Status Over MODBUS
   2. Configurable EGR timers
3. **Known Bugs/ Issues: GC2115-50**
4. **Others:** NA

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| Prepared By:  Soujanya  Engineer, Embedded Software  19 Apr 2024 | Reviewed By: |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V13**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [feature/dig\_op\_hw\_change](https://bitbucket.org/sedemac/gc2111_renesas/commits/branch/feature%2Fdig_op_hw_change)

Commit ID:  [8820238](https://bitbucket.org/sedemac/gc2111_renesas/commits/8820238feffa171d59f2a3f9469c05b74345f125)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: feature/gc2115\_hw\_change\_op\_j\_k

Commit ID: [9bcccce](https://bitbucket.org/sedemac/gc2k-bsp/commits/9bcccce4fa9e423733f61d12bffedb7160b7980f)

FSP 3.2.1

**Tag**: NA

**Checksum of .srec file:** 20874df2efeee49a048cd7a55d4b0fd0

**Release Date:** 12 April 2024

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: (Temporary hardware with Surgery)**

**Change log: -**

1. **Bug Fixes :** [**GC2115-55**](https://sedemac.atlassian.net/browse/GC2115-55)
2. **Enhancement and New Features:** 
   1. Support for Digital Outputs L to R.
   2. Added 14 new CFGZ params: 7 DO source and 7 DO activation for O/ps L to R.
   3. Modified string of auto switch buzzer from "AMF Switch Buzzer" to "Buzzer 2".
3. **Known Bugs/ Issues:** refer to JIRA.
4. **Others:** NA

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| Prepared By:  Ramachandran S  Engineer, Embedded Software  12 Apr 2024 | Reviewed By: |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V12**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [feature/dig\_op\_hw\_change](https://bitbucket.org/sedemac/gc2111_renesas/commits/branch/feature%2Fdig_op_hw_change)

Commit ID: [3c11ca4](https://bitbucket.org/sedemac/gc2111_renesas/commits/3c11ca481bcd45139f553a1dbdd32ad567c68650)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: feature/gc2115\_hw\_change\_op\_j\_k

Commit ID: [8079674](https://bitbucket.org/sedemac/gc2k-bsp/commits/8079674ed4b4e458daae151751b20d00764a8571)

FSP 3.2.1

Tag: NA

**Checksum of .srec file:** 878a0c4830444a54b65113360a243eb2

**Release Date:** 10 Apr 2024

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: (Temporary hardware with Surgery)**

**Change log: -**

1. **Bug Fixes :** NA
2. **Enhancement and New Features:** 
   1. Support for Digital Outputs J and K. Sources are hardcoded and therefore no parameter addition for Source and Activation.
      1. J – high if Vbat OV or VBat UV, low otherwise.
      2. K – high if DG Not in Manual, low otherwise (reused existing “Auto Mode” Source)
   2. Support for Dig In Q and R removed. Also, all parameters related to Dig Ips Q and R have been removed.
   3. New Dig Op Sources have been added which can be configured in any output except J and K: EGR output and Auto Mode Switch Buzzer.
3. **Known Bugs/ Issues: NA**
4. **Others:** NA

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| Prepared By:  Ramachandran S  Engineer, Embedded Software  10 Apr 2024 | Reviewed By: |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V11**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/commits/branch/gc2115_renesas_mnm)

Commit ID: [4f77fec](https://bitbucket.org/sedemac/gc2111_renesas/commits/4f77fece48bff4c2cafdef825dd234d84ef7c427)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [improvement/STB\_fault\_detection](https://bitbucket.org/sedemac/gc2k-bsp/commits/branch/improvement%2FSTB_fault_detection)

Commit ID: [0bb6012](https://bitbucket.org/sedemac/gc2k-bsp/commits/0bb60120a355e014bc39a6e673e6f1358c10c3aa)

FSP 3.2.1

Tag: NA

**Checksum of .srec file:** ac513a8c6248e7e34a73a69b39acfe4b

**Release Date:** 22 March 2024

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: SM0015046**

**Change log: -**

1. **Bug Fixes :** [**GC2115-45**](https://sedemac.atlassian.net/browse/GC2115-45)**,** [**GC2115-43**](https://sedemac.atlassian.net/browse/GC2115-43)**,** [**GC2115-42**](https://sedemac.atlassian.net/browse/GC2115-42)**,** [**GC2115-40**](https://sedemac.atlassian.net/browse/GC2115-40)**,** [**GC2115-39**](https://sedemac.atlassian.net/browse/GC2115-39)**,** [**GC2115-20**](https://sedemac.atlassian.net/browse/GC2115-20)
2. **Enhancement and New Features:** 
   1. **Inducement Buzzer for EGR (Requirement can be found in the “Firmware Update for GC1114/15/16” thread of “Product Development” channel.)**
3. **Known Bugs/ Issues:**
4. **Others: NA**

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| Prepared By:  Ramachandran S  Engineer, Embedded Software  22 Mar 2024 | Reviewed By:  Aditya Joshi  Engineer, Embedded Software  22 Mar 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V10**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/commits/branch/gc2115_renesas_mnm)

Commit ID: [4585286](https://bitbucket.org/sedemac/gc2111_renesas/commits/458528677637ca3c30c8d1acfc7047f2acaf1ce8)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [feature/GC2115\_16\_ip\_op\_addn](https://bitbucket.org/sedemac/gc2k-bsp/branch/feature/GC2115_16_ip_op_addn)

Commit ID: [c13b728](https://bitbucket.org/sedemac/gc2k-bsp/commits/c13b72893ff996a59b2e56be74ff20f900685a1c)

FSP 3.2.1

Tag:

**Checksum of .srec file:** 48c9ce7729f76f6a61ec2d9e501f4384

**Release Date: 08** March 2024

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: SM0015046**

**Change log: -**

1. **Bug Fixes : J1939 Transmit and receive arrays initialized after config change.**
2. **Enhancement and New Features:** [**J1939 Map updated**](./1.%09https:/sedemac.sharepoint.com/:x:/s/ProductLineGCU-GCUandB12ProductDevelopment/Ec1VC6bDYOhNi2wyGmpUL2MBoY2CJzPIjwQEmgwo4_IAXQ%3Fe=svfCbS)**.**
3. **Known Bugs/ Issues:** [GC2115-15](https://sedemac.atlassian.net/browse/GC2115-15)
4. **Others: NA**

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| Prepared By:  Aditya Kasar  Engineer, Embedded Software  08 Mar 2024 | Reviewed By:  Soujanya Mulik  Engineer, Embedded Software  08 Mar 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V09**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/commits/branch/gc2115_renesas_mnm)

Commit ID: [ac4f53a](https://bitbucket.org/sedemac/gc2111_renesas/commits/ac4f53a183945d7c06248c0b9847ced8d62acf74)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [feature/GC2115\_16\_ip\_op\_addn](https://bitbucket.org/sedemac/gc2k-bsp/branch/feature/GC2115_16_ip_op_addn)

Commit ID: [c13b728](https://bitbucket.org/sedemac/gc2k-bsp/commits/c13b72893ff996a59b2e56be74ff20f900685a1c)

FSP 3.2.1

Tag:

**Checksum of .srec file:** 2c6c62e9c2b91c357209a0419b633700

**Release Date: 08** March 2024

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: SM0015046**

**Change log: -**

1. **Bug Fixes :** [GC2115-33](https://sedemac.atlassian.net/browse/GC2115-33) , [GC2115-32](https://sedemac.atlassian.net/browse/GC2115-32), [GC2115-25](https://sedemac.atlassian.net/browse/GC2115-25), [GC2115-23](https://sedemac.atlassian.net/browse/GC2115-23), [GC2115-22](https://sedemac.atlassian.net/browse/GC2115-22), [GC2115-20](https://sedemac.atlassian.net/browse/GC2115-20), [GC2115-19](https://sedemac.atlassian.net/browse/GC2115-19), [GC2115-18](https://sedemac.atlassian.net/browse/GC2115-18), [GC2115-34](https://sedemac.atlassian.net/browse/GC2115-34), [GC2115-28](https://sedemac.atlassian.net/browse/GC2115-28) , [GC2115-21](https://sedemac.atlassian.net/browse/GC2115-21) , Frequency computation updated.
2. **Enhancement and New Features:** [**J1939 Map updated**](./1.%09https:/sedemac.sharepoint.com/:x:/s/ProductLineGCU-GCUandB12ProductDevelopment/Ec1VC6bDYOhNi2wyGmpUL2MBoY2CJzPIjwQEmgwo4_IAXQ%3Fe=svfCbS)**.**
3. **Known Bugs/ Issues:** [GC2115-15](https://sedemac.atlassian.net/browse/GC2115-15)
4. **Others: NA**

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| Prepared By:  Aditya Kasar  Engineer, Embedded Software  08 Mar 2024 | Reviewed By:  Soujanya Mulik  Engineer, Embedded Software  08 Mar 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V08**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [feature/gc2115\_ip\_op\_addn](https://bitbucket.org/sedemac/gc2111_renesas/branch/feature/gc2115_ip_op_addn)

Commit ID: [e2016eb](https://bitbucket.org/sedemac/gc2111_renesas/commits/e2016eb4836ccda38085e4814037271b6d3e6153)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [feature/GC2115\_16\_ip\_op\_addn](https://bitbucket.org/sedemac/gc2k-bsp/branch/feature/GC2115_16_ip_op_addn)

Commit ID: [c13b728](https://bitbucket.org/sedemac/gc2k-bsp/commits/c13b72893ff996a59b2e56be74ff20f900685a1c)

FSP 3.2.1

Tag:

**Checksum of .srec file:** ca36bdc0f9b1460bab840f6c1b5e65ba

**Release Date: 29** Feb 2024

**Compatible Bootloader: SM0013200- 1.28V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: SM0015046**

**Change log: -**

1. **Bug Fixes :**
2. **Enhancement and New Features: Added new digital inputs and outputs. Added supercapacitor failure to input sources.**
3. **Known Bugs/ Issues:** NA
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Manohar Varanasi  Engineer, Embedded Software  29 Feb 2024 |  |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V07**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [feature/gc2115\_modbus\_automation\_reg\_update](https://bitbucket.org/sedemac/gc2111_renesas/branch/feature/gc2115_modbus_automation_reg_update)

Commit ID: [c2634ae](https://bitbucket.org/sedemac/gc2111_renesas/commits/c2634ae7b6556348a3979ed6f14de41cef56d4a3)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [GC211x\_BSP](https://bitbucket.org/sedemac/gc2k-bsp/commits/branch/GC211x_BSP)

Commit ID: [3334d39](https://bitbucket.org/sedemac/gc2k-bsp/commits/3334d397e4e7bea41495367d7cc1b7b94a559bbd)

FSP 3.2.1

Tag:

**Checksum of .srec file:** 01b54db8de646dd125ff3d68bd2d1124

**Release Date: 22** Feb 2024

**Compatible Bootloader: SM0013200- 1.22V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: SM00012209**

**Change log: -**

1. **Bug Fixes :**
2. **Enhancement and New Features: Updates automation MODBUS registers and added J1939 support for the same.**
3. **Known Bugs/ Issues:** NA
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Manohar Varanasi  Engineer, Embedded Software  22 Feb 2024 |  |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V06**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [48c2c27](https://bitbucket.org/sedemac/gc2111_renesas/commits/48c2c2797ba431e89b5ace25690bea4804e9f9f0)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [GC211x\_BSP](https://bitbucket.org/sedemac/gc2k-bsp/commits/branch/GC211x_BSP)

Commit ID: [3334d39](https://bitbucket.org/sedemac/gc2k-bsp/commits/3334d397e4e7bea41495367d7cc1b7b94a559bbd)

FSP 3.2.1

Tag:

**Checksum of .srec file:** 47a6fdc3facd5db4b3fb91d84ae6ceb2

**Release Date: 16** Feb 2024

**Compatible Bootloader: SM0013200- 1.22V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: SM00012209**

**Change log: -**

1. **Bug Fixes : GC2115-16**
2. **Enhancement and New Features:**
3. **Known Bugs/ Issues:** NA
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Manohar Varanasi  Engineer, Embedded Software  16 Feb 2024 |  |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V05**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID: [595dc18](https://bitbucket.org/sedemac/gc2111_renesas/commits/595dc1871ccb1b1f2e82618ce01b50224101b332)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch: [GC211x\_BSP](https://bitbucket.org/sedemac/gc2k-bsp/commits/branch/GC211x_BSP)

Commit ID: [3334d39](https://bitbucket.org/sedemac/gc2k-bsp/commits/3334d397e4e7bea41495367d7cc1b7b94a559bbd)

FSP 3.2.1

Tag:

**Checksum of .srec file:** 8c1b7d01957ae72ae8b387a44942ab60

**Release Date: 15** Feb 2024

**Compatible Bootloader: SM0013200- 1.22V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: SM00012209**

**Change log: -**

1. **Bug Fixes :**
2. **Enhancement and New Features: Fixed EGR and resistive sensor open circuit alarm bugs. Updated max no of profiles.**
3. **Known Bugs/ Issues:** NA
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Manohar Varanasi  Engineer, Embedded Software  15 Feb 2024 | Reviewed By:  Aditya Joshi  Engineer, Embedded Software  15 Feb 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V04**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project:[SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository:[gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID:[2d5c757](https://bitbucket.org/sedemac/gc2111_renesas/commits/2d5c7576cd2f069833ecae464559fbe2f87fb33e)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)`

Branch:[GC211x\_BSP](https://bitbucket.org/sedemac/gc2k-bsp/commits/branch/GC211x_BSP)

Commit ID:[0c52d59](https://bitbucket.org/sedemac/gc2k-bsp/commits/0c52d5961e242e87f5515ece9eec315492c5ef05)

FSP 3.2.1

Tag:

**Checksum of .srec file:** 530423b094420f748343f53102febc3b

**Release Date: 15** Feb 2024

**Compatible Bootloader: SM0013200- 1.22V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: SM00012209**

**Change log: -**

1. **Bug Fixes :**
2. **Enhancement and New Features: Standardized CFGZ (for 2115 and 2116) for automation.**
3. **Known Bugs/ Issues:** NA
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Manohar Varanasi  Engineer, Embedded Software  15 Feb 2024 | Reviewed By:  Aditya Joshi  Engineer, Embedded Software  15 Feb 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V03**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project:[SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository:[gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID:[764b037](https://bitbucket.org/sedemac/gc2111_renesas/commits/764b037e95b27efab4f948a53eb4d4562200fa81)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)

Branch:[GC211x\_BSP](https://bitbucket.org/sedemac/gc2k-bsp/commits/branch/GC211x_BSP)

Commit ID:[0c52d59](https://bitbucket.org/sedemac/gc2k-bsp/commits/0c52d5961e242e87f5515ece9eec315492c5ef05)

FSP 3.2.1

Tag:

**Checksum of .srec file:** 254ce4c84793c12017cdfddd8d09ab1b

**Release Date:** 29 Jan 2024

**Compatible Bootloader: SM0013200- 1.22V with 50% Contrast**

**Toolchain version used :** GNU ARM Embedded 10.2.1.20201103

**Compatible software:** NA

**Compatible Hardware: SM00012209**

**Change log: -**

1. **Bug Fixes : Fixed GF-35, GF-22.**
2. **Enhancement and New Features:**
3. **Known Bugs/ Issues:** NA
4. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Manohar Varanasi  Engineer, Embedded Software  29 Jan 2024 | Reviewed By:  Aditya Joshi  Engineer, Embedded Software  29 Jan 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V02**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project:[SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository:[gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID:[7f431b9](https://bitbucket.org/sedemac/gc2111_renesas/commits/7f431b98c0359b3831b8cf9a97cef2392729a672)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)

Branch:[GC211x\_BSP](https://bitbucket.org/sedemac/gc2k-bsp/commits/branch/GC211x_BSP)

Commit ID:[0c52d59](https://bitbucket.org/sedemac/gc2k-bsp/commits/0c52d5961e242e87f5515ece9eec315492c5ef05)

FSP 3.2.1

Tag:

**Checksum of .srec file:** aa9c687ad0683ad1e3ab1d181b57af4b

**Release Date:** 24 Jan 2024

**Compatible Bootloader: SM0013200- 1.22V with 50% Contrast**

**Compatible software:** NA

**Compatible Hardware: SM00012209**

**Change log: -**

1. **Bug Fixes**

**Fixed GF-22**

**Fixed issues SW-47, SW- 41**

1. **Enhancement and New Features:**
2. **Known Bugs/ Issues:** NA
3. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  24 Jan 2024 | Reviewed By:  Ramachandran S  Engineer, Embedded Software  24 Jan 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V01**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project:[SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository:[gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID:[60c40e3](https://bitbucket.org/sedemac/gc2111_renesas/commits/60c40e3eb762c6d6d4a34b9d8a62d1dbd3b3003a)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)

Branch:[GC211x\_BSP](https://bitbucket.org/sedemac/gc2k-bsp/commits/branch/GC211x_BSP)

Commit ID:[0c52d59](https://bitbucket.org/sedemac/gc2k-bsp/commits/0c52d5961e242e87f5515ece9eec315492c5ef05)

FSP 3.2.1

Tag:

**Checksum of .srec file:** 27bcc0d0267f1db2b5c871f65d6af66a

**Release Date:** 17 Jan 2024

**Compatible Bootloader: SM0013200- 1.22V with 50% Contrast**

**Compatible software:** NA

**Compatible Hardware: SM00012209**

**Change log: -**

1. **Bug Fixes**

**Test mode icon visibility**

**Preheat config UI related fix**

1. **Enhancement and New Features:**

**Eliminated warnings**

1. **Known Bugs/ Issues:** NA
2. **Others:**

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  17 Jan 2024 | Reviewed By:  Soujanya Mulik  Engineer, Embedded Software  17 Jan 2024 |  |

**Software Revision and Version: SW\_EXECUTABLE\_FIRMWARE\_GC2115\_R0V00**

This is firmware for the GCU product **GC2115**.

**GCU Firmware source code details:**

BitBucket Project:[SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository:[gc2111\_renesas](https://bitbucket.org/sedemac/gc2111_renesas)

Branch: [gc2115\_renesas\_mnm](https://bitbucket.org/sedemac/gc2111_renesas/branch/gc2115_renesas_mnm)

Commit ID:[a70eb29](https://bitbucket.org/sedemac/gc2111_renesas/commits/a70eb29c5d698c9811d5fbb2948395176fa5a173)

**BSP source code details:**

BitBucket Project: [SW - GC2X](https://bitbucket.org/sedemac/workspace/projects/SW_GC2X)

Repository: [gc2k-bsp](https://bitbucket.org/sedemac/gc2k-bsp)

Branch:[GC211x\_BSP](https://bitbucket.org/sedemac/gc2k-bsp/commits/branch/GC211x_BSP)

Commit ID:[5abbf11](https://bitbucket.org/sedemac/gc2k-bsp/commits/5abbf113bbff6466de17ef08153511231091aac5)

FSP 3.2.1

Tag:

**Checksum of .srec file:** 2cf82f529711a0155347b644e56098f4

**Release Date:** 09 Jan 2024

**Compatible Bootloader: SM0013200- 1.22V with 50% Contrast**

**Compatible software:** NA

**Compatible Hardware: SM00012209**

**Change log: -**

1. **Bug Fixes**
2. **Enhancement and New Features:**

Added 20 pt fuel level calibration table

Added support for calibration

Changed gen single phase mon screen strings from “R” to “Ph-N”

1. **Known Bugs/ Issues:** NA
2. **Others:** Initial release for testing

|  |  |  |
| --- | --- | --- |
| Prepared By:  Aditya Joshi  Engineer, Embedded Software  09 Jan 2024 | Reviewed By:  Ramachandran S  Engineer, Embedded Software  09 Jan 2024 |  |