

Release Note

IEC 61508 Functional Safety Packages for tinyAVR® 2 Family

Packages

| Packages covered by the release note | IEC 61508 Basic Package |
|--------------------------------------|-----------------------------------|
| Target devices | tinyAVR® 2 microcontroller family |
| Version | 1.0 |
| Date (yyyy.mm.dd) | 2022.03.01 |

List of Contents in Packages

| ltem | Doc. ID/Revision | Release Date (yyyy.mm.dd) | Basic |
|---|------------------|------------------------------|-------|
| IEC 61508 FMEDA for ATtiny82x | FS-00106/C | 2022.02.03 | X |
| IEC 61508 FMEDA for ATtiny162x | FS-00072/E | 2022.02.03 | X |
| IEC 61508 FMEDA for ATtiny322x | FS-00105/C | 2022.02.03 | X |
| Safety Manual for tinyAVR® 2 microcontroller family | DS-40002393/A | 2022.02.09 | X |

About the Contents in the Package

An FMEDA provides the base FIT rate of the device. It also provides the means to determine the residual FIT rate when the relevant diagnostic mechanisms are selected in the FMEDA by the system integrator.

A safety manual describes, in detail, how to use the device from both a hardware and software perspective in a safety-critical application that must conform to the IEC 61508 safety standard.

Refer to IEC 61508 Industrial Functional Safety for PIC® and AVR® for more information about the functional safety packages.

Version History

| Version | Changes |
|---------|--|
| 1.0 | Packages created. Include the following items: |
| | IEC 61508 FMEDA for ATtiny82x (rev. C) |
| | IEC 61508 FMEDA for ATtiny162x (rev. E) |
| | IEC 61508 FMEDA for ATtiny322x (rev. C) |
| | Safety Manual for tinyAVR® 2 microcontroller family (rev. A) |

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