

UR Family

Bootloader 7.06 for CPU with Interface to Graphical Front Panel

Release Notes

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Overview

This document contains the release notes for bootloader version 7.04 and 7.06 for the GE Universal Relay (UR) family of products. It applies to a relay's Central Processing Unit (CPU) module with an interface to a graphical front panel. This CPU module is identifiable by the two connector slots on the front.

Applicable to products: B30, B90, C30, C60, C70, C95, D30, D60, F35, F60, G30, G60, L30, L60, L90, M60, N60, T35, T60

Date of release 7.04: 23 December 2020

Date of release 7.06: 16 July 2021

In the following descriptions, a category letter is placed to the left of the title. See the table at the end of this document for descriptions of the categories.

Version 7.04

Summary

- Added support for Error-Correction Code (ECC) in the bootloader, for the UR application firmware

Bootloader 7.04

N Added support for Error-Correction Code (ECC) in the bootloader, for the UR application firmware

Products: All CPUs with an interface for a graphical front panel

Impacted firmware: All

Corrected firmware: 7.04

Workaround: None

Description: Bootloader version 7.04 adds support for Error-Correction Code (ECC) in the bootloader, for the UR application firmware. The bootloader can be used with application firmware that does not support ECC, as well as with application firmware that does support ECC. To benefit from the ECC feature in the application firmware, a bootloader with ECC support must be used.

Figure 1: Black connector for graphical front panel above chrome connector



Version 7.06

Summary

- Corrected unexpected restart when using certain firmware application versions
- Corrected bootloader to allow placing main CPU in flash programming mode

Bootloader 7.06

B Corrected unexpected restart when using certain firmware application versions

Products: All CPUs with an interface for a graphical front panel

Impacted firmware: Bootloader 7.04

Corrected firmware: Bootloader 7.06

Workaround: None

Description: Relays with bootloader version 7.04 and certain specific firmware application versions (for example version 7.4x) experience continuous unexpected restarts. This issue is visible immediately after a firmware upgrade to either bootloader version 7.04 or the application firmware.

Bootloader version 7.06 corrects this issue, correctly loading any application version.

G Corrected bootloader to allow placing main CPU in flash programming mode

Products: All CPUs with an interface for a graphical front panel

Impacted firmware: Bootloader 7.04

Corrected firmware: Bootloader 7.06

Workaround: None

Description: Relays with bootloader version 7.04 do not allow placing the main CPU in flash programming mode by holding the **ESCAPE** pushbutton while power-cycling the relay.

Bootloader version 7.06 corrects the issue.

Categories

This document uses the following categories to classify changes.

Revision categories

Code	Category	Description
N	New feature	A separate feature added to the relay. Changes to existing features even if they significantly expand the functionality are not in this category.
G	Change	A neutral change that does not add new value and is not correcting any known problem
E	Enhancement	Modification of an existing feature bringing extra value to the application
D	Changed, incomplete, or false faceplate indications	Changes to, or problems with text messages, LEDs, and user pushbuttons
R	Changed, incomplete, or false relay records	Changes to, or problems with relay records (oscillography, demand, fault reports, and so on)
C	Protocols and communications	Changes to, or problems with protocols or communication features
M	Metering	Metering out of specification or other metering problems
P	Protection out of specification	Protection operates correctly but does not meet published specifications (example: delayed trip)
U	Unavailability of protection	Protection not available in a self-demonstrating way so that corrective actions can be taken immediately
H	Hidden failure to trip	Protection does not operate when appropriate
F	False trip	Protection operates when it is not appropriate
B	Unexpected restart	Relay restarts unexpectedly

For further assistance

For product support, contact the information and call center as follows:

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