



Elektrobit

EB tresos[®] IOC release notes CORTEXM S32K14X

product release 6.0





EB tresos® IOC release notes CORTEXM S32K14X

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1. Release Notes

Release:

EB tresos IOC IOC 6.0.180 [revision 0000]

Date:

2018-09-06

Supported architecture:

CORTEXM/S32K14X

AUTOSAR version and revision:

4.0.3

AUTOSAR SWS version and revision:

5.0.0

Supplier:

Elektrobit Automotive GmbH

1.1. Compiler and Hardware

For an updated list of supported compilers including supported compiler options and hardware used for testing, please refer to the qualification report provided with the AutoCore OS or Safety OS delivery.

1.2. New features

IOC 1.0

This is the first release of the EB tresos IOC.

1.3. Migrating EB tresos IOC

1.4. Deviations

Deviations are described in the EB tresos IOC User's Guide, section "Deviations".

1.5. Change log

This chapter lists the changes between different versions. Only changes for the current architecture are listed. Please note that a change for the current architecture may also be listed within the version entry for another architecture, if the release of this architecture coincided with the change.

IOC version 6.0.180

CORTEXM S32K14X release

IOC version 6.0.179

RH850 RH850F1K release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.178

CORTEXM S32G275M7 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.177

RH850 RH850P1HC release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.176

TRICORE TC29XT release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.175

TRICORE TC277 release

IOC version 6.0.174

ARM BCM89531 release

IOC version 6.0.173

PA SPC584B release

IOC version 6.0.172

RH850 RH850F1L release

IOC version 6.0.171

TRICORE TC22XL release

IOC version 6.0.170

TRICORE TC277 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.169

PA SPC584B release

IOC version 6.0.168

TRICORE TC22XL release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.167

PA QUASAR3 release

IOC version 6.0.166

RH850 RH850D1X release

IOC version 6.0.165

TRICORE TC22XL release

IOC version 6.0.164

RH850 RH850F1H release

IOC version 6.0.163

CORTEXM S32K14X release

IOC version 6.0.162

RH850 RH850F1H release

IOC version 6.0.161

CORTEXM STA1385M3 release

IOC version 6.0.160

ARM RCARM3CR7 release

IOC version 6.0.159

CORTEXM S32K14X release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.158

RH850 RH850D1X release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.157

PA MPC574XB release

IOC version 6.0.156

PA SPC58XH release

IOC version 6.0.155

CORTEXM STA1385M3 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.154

ARM S32S247 release

IOC version 6.0.153

PA MPC574XB release

IOC version 6.0.152

PA SPC58XC release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.151

RH850 RH850F1KH release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.150

PA MPC574XB release

IOC version 6.0.149

TRICORE TC277 release

IOC version 6.0.148

RH850 RH850D1X release

IOC version 6.0.147

RH850 RH850F1KM release

IOC version 6.0.146

TRICORE TC38XQ release

IOC version 6.0.145

WINDOWS WIN32X86 release

IOC version 6.0.144

RH850 RH850F1KM release

IOC version 6.0.143

TRICORE TC277 release

IOC version 6.0.142

RH850 RH850D1X release

IOC version 6.0.141

PA SPC584B release

IOC version 6.0.140

RH850 RH850F1KM release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.139

RH850 RH850F1K release

IOC version 6.0.138

CORTEXM BCM89107 release

IOC version 6.0.137

CORTEXM S32K14X release

IOC version 6.0.136

ARM RCARM3CR7 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.135

WINDOWS WIN32X86 release

IOC version 6.0.134

TRICORE TC23XL release

IOC version 6.0.133

TRICORE TC23XL release

WARNING This is an untested development drop. Do not use for production.



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- ASCIIOC-290 Fixed known issue: IOC cannot cope with compiler options which force structure size to a certain minimum value.

IOC version 6.0.132

ARM RCARV3MCR7 release

IOC version 6.0.131

TRICORE TC38XQ release

IOC version 6.0.130

CORTEXM S32K14X release

IOC version 6.0.129

ARM S32S247 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.128

PA SPC58XG release

IOC version 6.0.127

ARM RCARV3MCR7 release

IOC version 6.0.126

TRICORE TC38XQ release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.125

ARM RCARV3MCR7 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.124

TRICORE TC38XQ release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.123

TRICORE TC29XT release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.122

CORTEXM S32K14X release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.121

TRICORE TC277 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.120

ARM RCARM3CR7 release

IOC version 6.0.119

TRICORE TC39XX release

IOC version 6.0.118

TRICORE TC39XX release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.117

ARM BCM89531 release

IOC version 6.0.116

CORTEXM BCM89107

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.115

ARM RCARV3MCR7

IOC version 6.0.114

PA SPC584B release

IOC version 6.0.113

PA SPC584B release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.112

PA QUASAR2E release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.111

PA QUASAR3 release

IOC version 6.0.110

ARM BCM89531 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.109

PA QUASAR3 release

IOC version 6.0.108

ARM BCM89531 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.107

PA QUASAR3 release

IOC version 6.0.106

PA QUASAR3 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.105

ARM64 RCARM3 release

IOC version 6.0.104

ARM RCARV3MCR7 release

IOC version 6.0.103

TRICORE TC29XT release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.102

WINDOWS WIN32X86 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.101

ARM S32S247 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.100

ARM RCARV3MCR7 release

IOC version 6.0.99

PA SPC58XC release

IOC version 6.0.98

TRICORE TC39XX release (including EB tresos Safety OS support)

IOC version 6.0.97

CORTEXM BCM89107 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.96

ARM RCARV3MCR7 release

IOC version 6.0.95

ARM64 RCARV3M release

IOC version 6.0.94

ARM64 S32V234BE release

IOC version 6.0.93

CORTEXM TDA3x release

IOC version 6.0.92

TRICORE TC39XX release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.91

PA MPC574XB release

IOC version 6.0.90

ARM AR1642 release

IOC version 6.0.89

RH850 RH850F1H release

IOC version 6.0.88

CORTEXM MV88Q5050 release

IOC version 6.0.87

TRICORE TC39XX release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.86

PA SPC58XG release (including EB tresos Safety OS support)

IOC version 6.0.85

TRICORE TC39XX release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.84

ARM64 RCARM3 release

IOC version 6.0.83

ARM AR1642 release (including EB tresos Safety OS support)

IOC version 6.0.82

PA SPC58XC release (including EB tresos Safety OS support)

IOC version 6.0.81

ARM S32V234AA32 release (including EB tresos Safety OS support)

IOC version 6.0.80

PA MPC5777C release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.79

ARM RCARM3CR7 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.78

ARM64 RCARV3M release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.77

TRICORE TC39XX release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.76

TRICORE TC26XD release

IOC version 6.0.75

ARM AR1642 release

IOC version 6.0.73

PA SPC58XG release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.72

CORTEXM MV88Q5050 release

IOC version 6.0.71

ARM RCARV3MCR7 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.70

CORTEXM MV88Q5050 release

IOC version 6.0.69

PA SPC58XC release (including EB tresos Safety OS support)

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.68

PA MPC574XG release

IOC version 6.0.67

ARM64 RCARV3M release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.66

ARM RCARV3MCR7 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.65

RH850 RH850F1H release (including EB tresos Safety OS support)

IOC version 6.0.64

TRICORE TC29XT release (including EB tresos Safety OS support)

IOC version 6.0.63

CORTEXM MV88Q5050 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.62

TRICORE TC277 release

IOC version 6.0.61

PA XPC564XC release

IOC version 6.0.60

TRICORE TC277 release

IOC version 6.0.59

RH850 RH850F1K release

IOC version 6.0.58

WINDOWS WIN32X86 release

IOC version 6.0.57

PA SPC58XC release

IOC version 6.0.56

ARM64 RCARH3 release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.55

PA SPC58XG release

IOC version 6.0.54

PA SPC58XG release

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.53

TRICORE TC29XT release (including EB tresos Safety OS support)

IOC version 6.0.52

PA QUASAR3 release (including EB tresos Safety OS support)

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.51

ARM S32V234AA32 release (including EB tresos Safety OS support)

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.50

ARM RCARH3CR7 development drop

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.49

PA XPC564XC

IOC version 6.0.48

RH850 RH850D1X

IOC version 6.0.47

RH850 RH850F1H development drop

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.46

RH850 RH850F1H release

IOC version 6.0.45

PA MPC574XB release

- ▶ ASCIIOC-109 Fixed known issue: EB tresos AutoCore OS IOC intra-core lock is ineffective.

IOC version 6.0.44

RH850 RH850F1K release

IOC version 6.0.43

RH850 RH850P1HC release

IOC version 6.0.42

RH850 RH850P1HC prototype release

IOC version 6.0.41

ARM S32V234AA32 development drop

WARNING This is an untested development drop. Do not use for production.



IOC version 6.0.40

TRICORE TC29XT release (including EB tresos Safety OS support)

IOC version 6.0.39

PA QUASAR0 release

IOC version 6.0.38

TRICORE TC277 release (including EB tresos Safety OS support)

IOC version 6.0.37

PA SPC58XC release

IOC version 6.0.36

CORTEXM S32V234M4 release

IOC version 6.0.35

WINDOWS WIN32X86 release

IOC version 6.0.34

PA QUASAR3 release

IOC version 6.0.33

TRICORE TC26XD release

IOC version 6.0.31

TRICORE TC29XT release (including EB tresos Safety OS support)

- Support variable length transmissions and partial updates.

- ▶ Removed the MaxRetryTime feature. Read[Ext] operations will now read the buffer until it is in a consistent state. The operating system's execution budget monitoring can be used instead of this feature.

IOC version 6.0.29

Renesas RH850F1H prototype release

WARNING This is an untested prototype release. Do not use for production.



IOC version 6.0.28

TRICORE TC277 release (including EB tresos Safety OS support)

- ▶ ASCIOC-25 Fixed known issue: Passing illegal pointers to the 'IsTrapping' API of a channel might break spatial isolation or crash the kernel.

IOC version 6.0.25

TRICORE TC29XT release (including EB tresos Safety OS support)

IOC version 0.1.5

WINDOWS WIN32X86 release

IOC version 0.1.4

WINDOWS WIN32X86 release

- ▶ The user-mode variants of locSend and locWrite no longer check, whether the calling application is allowed to request their service. This check is now meant to be done by memory protection.

IOC version 0.1.3

TC29XT release (including EB tresos Safety OS support)

WARNING This is a development drop. Do not use for production.



-
- ▶ Removed all trapping receive APIs (activated by `OslocReceiverApilsTrapping`) as well as the configuration parameters `OslocTargetVarsStart` and `OslocTargetVarsEnd`. All read and receive operations are now serviced in the caller's context.

IOC version 0.1.2

TC29XT release (including EB tresos Safety OS support)

WARNING This is an untested development drop. Do not use for production.



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- ▶ ASCIIOC-27 Fixed known issue: AutoCore OS IOC is vulnerable to intra-core preemption.

IOC version 0.1.1

TC27X release

- ▶ ASCIIOC-15 Added interface to EB tresos AutoCore OS.
- ▶ The `locWrite` API now unlocks the channel's spinlock correctly.
- ▶ The IOC is now able to send/write primitive data elements, having a value of zero.
- ▶ The IOC is now able to send/write complex data elements, which are smaller than four bytes.
- ▶ Group communication channels now support `locEmptyQueue`.

IOC version 0.1.0

TC29XT prototype release (including EB tresos Safety OS support)

WARNING This is a prototype release. Do not use for production.

