
Application Note AN 145

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Subject

Protocol binary update to version 2.04

Introduction

The TTP/C protocol binary version 1.00 located in the AS8202NF ROM must not be used in safety-critical systems. Instead a modified TTP/C protocol binary version 2.04 must be executed from controller instruction RAM for AS8202NF operation.

Description

Differences between controller firmware 2.03 to version 2.04:

- Due to aerospace certification aspects a line of dead (unreachable) binary code is removed (binary word offset 0x394 is removed) which has no effect to the behavior of the protocol firmware (Firmware version 2.04 behaves exactly in the same way as version 2.03).

The protocol 2.04 is compatible with the TTP/C High-level Protocol Specification 1.1.

The TTP/C protocol binary version 2.04 can be obtained from the chip vendor (austriamicrosystems) and must be downloaded into the instruction memory of the controller before starting the controller. The updated datasheet of the AS8202NF has the version 1.7 from February 2007.

The algorithm how to use a RAM protocol with the C2NF model is described in the document

TTP/C Controller Model C2NF Controller-Host Interface Description Firmware 2.04
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Example code (ANSI C) is given in the appendix of this document. The protocol update is delivered as a package to be included into an ANSI C application.

Contact

TTTech Computertechnik AG
Schoenbrunner Strasse 7
A-1040 Vienna, Austria
Tel.: +43 1 585 34 34-0
Fax: +43 1 585 34 34-90
E-mail: office@tttech.com
Web: www.tttech.com

TTTech Computertechnik AG

Schoenbrunner Str. 7, A-1040 Vienna, Austria, Tel. + 43 1 585 34 34-0, Fax +43 1 585 34 34-90, office@tttech.com, www.tttech.com