

Execution CANopen-Slave Interfaces

1. Standard CANopen Slave Interface for Software 01

Type: BM4-O-CAN-03-00-00

Part No.:350442

Function: CANopen Slave Interface for Software version 01

Presuppositions: BM44XX-XX-XXXXX-01

Information of nameplate:

BM4-O-CAN-03		00	00	yyy	zzz		
LP 3.0103.04.Xxx							
D200:	6.1297.xxxx					Firmware	FPGA-SW
D400:	6.1294.02xx					6.1294.	6.1297
	LP-Version						
3.0103.04	B02	000	000	0205	0101		
	B02	000	001	0208	0101		
	B02	000	002	0210	0102		
	B02	000	003	0211	0105		
	B02	000	004	0212	0105		
	B03	001	004	0212	0105		
	B04	002	004	0212	0105		

Hardware history

The printed circuit board 3.0103.04.B02 is the first official version.

The printed circuit board 3.0103.04.B03 is introduced with AT076_05 from March 03, 2005.

- Optimized boot behavior (Reset level at the option modules)

The printed circuit board 3.0103.04.B04 is introduced with AT141_07 from May 05, 2007.

- Optimizing of Assembly (No Boot Strip Loader Function)

The changes are uncritically for the software. New software also runs on old hardware version.

FPGA software history

The FPGA-software 1.01 is the first official version.

The FPGA-software 1.02 is introduced from March 23, 2004.

- Functional character synchronous PDLL-Action. This is a presupposition for Motion Control applications.

The FPGA-software 1.05 is introduced with AT017_05 from March 03, 2005.

- Synchronization behavior improves with restart of the synchronization
- Improvement of the BACI-Timing

Firmware history

The Firmware-software 2.05 is the first official version.

The Firmware-software 2.08 is introduced with AT136_03 from March 11, 2003.

The Firmware-software 2.10 is introduced with AT152_04 from March 25, 2004. From here at least FPGA 102 is necessary.

- Extension of the functional character on Multi Axis Motion Control

The Firmware-software 2.11 is introduced with AT117_05 from March 03, 2004.

- Assumption of the Double buffering like for CANopen FW for LC2 / 3

The Firmware-software 2.12 is introduced with AT070_05 from March 17, 2005.

- Corrections were carried out for applications as a Slave in PLC.

The Firmware versions 02.00 - 02.05, 02.06-02.07 and 2.09, 2.10 have not been introduced officially.

Indication

The application of Motion Control is suitable from Firmware version 02.10.

Update-Indication

Software-Update and Firmware-Update are possible with an adapter.

The FPGA version 0102 is necessary from Firmware version 0210 at least. If the version 205 is updated on a newer version, then also the data record in the controllers (BACI and synchronization attitudes) must be changed.

2. Standard CANopen Slave Interface for Software 03

Type: BM4-O-CAN-03-00-01

Part No.:376681

Function: CANopen Slave Interface for software version 03

Presuppositions: BM44XX-XX-XXXXX-03

Information of nameplate:

BM4-O-CAN-03 - 00 - 01 - yyy - zzz				Firmware	FPGA-SW
LP 3.0103.04.Xxx				6.1294.	6.1297
D200: 6.1297.xxxx					
D400: 6.1294.03xx					
LP-Version					
3.0103.04	B02	000	000	0301	0102
	B02	000	001	0302	0102
	B02	000	002	0302	0105
	B02	000	003	0303	0105
	B03	001	003	0303	0105
	B03	001	004	0304	0105
	B03	001	005	0305	0105
	B03	001	006	0306	0105
	B03	001	007	0307	0107
	B03	001	008	0308	0107
	B04	002	008	0308	0107
	B04	002	009	0309	0107

Hardware history

The printed circuit board 3.0103.04.B02 is the first official version.

The printed circuit board 3.0103.04.B03 is introduced with AT076_05 from March 03, 2005.

- Optimized boot behavior (Reset level at the option modules)

The printed circuit board 3.0103.04.B04 is introduced with AT141_07 from May 05, 2007.

- Optimizing of Assembly (No Boot Strip Loader Function)

FPGA software history

The FPGA-software 1.02 is the first official version.

The FPGA-software 1.05 is introduced with AT017_05 from March 25, 2004.

- Insertion of field bus objects for Motion Control and Battenfeld PN: 1000-366- 73

The FPGA-software 1.07 is introduced with AT035_06 from March 15, 2006.

- Possibility to switch on / off the synchronization (PLL)

Firmware history

The Firmware software 3.01 is the first official version.

The Firmware-software 3.02 is introduced with AT016_05 from February 17, 2005.

- Introduction of the Double buffering (Additional changes look at release notes)

The Firmware-software 3.03 is introduced with AT070_05 from March 17, 2005.

- Revision of Error codes

The Firmware-software 3.04 is introduced with AT130_05 from April 29, 2005.

- Revision of the interrupt registers

The Firmware-software 3.05 is introduced with AT166_05 from May 30, 2005.

- No differences to version FW 1294.0304

The Firmware-software 3.06 is introduced with AT208_05 from July 15, 2005.

- Change in PLC slave communication

The Firmware-software 3.07 is introduced with AT035_06 from March 15, 2006.

- Improvement of BACI communication

The Firmware-software 3.08 is introduced with AT273_06 from September 20, 2006.

- Improvement for Software of CANopen-Slave for PLC

The Firmware-software 3.08 is introduced with AT242_07 from August 6, 2007.

- Change in PLC slave communication

Indication

The application of Motion Control is suitable from Firmware version 03.02.

Update-Indication

Software-Update and Firmware-Update are possible with an adapter. Presupposition:

If the version 3.02 is updated on a newer version, then also the data record in the controllers (BACI and synchronization attitudes) must be changed.

3. CANopen Slave Interface for Software 01 (Customer's version Beyerle)

Type: BM4-O-CAN-03-00-02

Part No.:378098

Function: CANopen Slave Interface for software version 01

Presuppositions: BM44XX-XX-XXXXX-01

Information of nameplate:

BM4-O-CAN-03 - 00 - 02 - yyy - zzz		Firmware	FPGA-SW
LP 3.0103.04.Xxx		6.1294.	6.1297
D200:	6.1297.0101		
D400:	6.1294.0208		
	LP-Version		
3.0103.04	B02	0208	0101
	B03	0208	0101
	B04	0208	0101

Hardware history

The printed circuit board 3.0103.04.B02 is the first official version.

The printed circuit board 3.0103.04.B03 is introduced with AT076_05 from March 23, 2005.

- Optimized boot behavior (Reset level at the option modules)

The printed circuit board 3.0103.04.B04 is introduced with AT141_07 from May 05, 2007.

- Optimizing of Assembly (No Boot Strip Loader Function)

FPGA software history

The FPGA-software 2.08 is the first official version.

Firmware history

The Firmware-software 1.01 is the first official version.

Indication

Frozen software-state of the main line BM4-CAN-03-00-00 for customer Beyerle.

It was removed by BM4-CAN-03-00-07 in the mean time.

Type: BM4-O-CAN-03-00-03

Part No.:380693

Function: CANopen-Slave Interface for software version 01

Presuppositions: BM44XX-XX-XXXXX-01

Information of nameplate:

BM4-O-CAN-03 - 00 - 03 - yyy - zzz		Firmware	FPGA-SW
LP 3.0103.04.Xxx		6.1294.	6.1297
D200:	6.1297.xxxx		
D400:	6.1294.02xx		
	LP-Version		
3.0103.04	B02	b211	0105
	B03	b211	0105
	B04	b211	0105

Software state prototype for firm Beyerle state of development; it is replaced by CAN-03-00-05

Hardware history

The printed circuit board 3.0103.04.B02 is the first official version.

The printed circuit board 3.0103.04.B03 is introduced with AT076_05 from March 23, 2005.

- Optimized boot behavior (Reset level at the option modules)

The printed circuit board 3.0103.04.B04 is introduced with AT141_07 from May 05, 2007.

- Optimizing of Assembly (No Boot Strip Loader Function)

FPGA software history

The FPGA-software 1.05 is the first official version.

Firmware history

The Firmware-software b2.11 is the first official version.

Indication

Frozen software-state of the main line BM4-CAN-03-00-00 for customer Beyerle.
The test version is between the execution BM4-CAN-03-02 and BM4-CAN-03-05.
In the mean time it was removed by BM4-CAN-03-00-07.

Type: BM4-O-CAN-03-00-05

Part No.: 38324

Function: CANopen-Slave Interface for software version 01

Presuppositions: BM44XX-XX-XXXXX-01

Information of nameplate:

BM4-O-CAN-03 - 00 - 05 - yyy - zzz					
LP 3.0103.04.Xxx					
D200:	6.1297.0105				
D400:	6.1294.0211				
				Firmware	FPGA-SW
				6.1294.	6.1297
3.0103.04	LP-Version				
	B02	000	000	0211	0105
	B03	001	000	0211	0105
	B04	002	000		

Hardware history

The printed circuit board 3.0103.04.B02 is the first official version.

The printed circuit board 3.0103.04.B03 is introduced with AT076_05 from March 23, 2005.

- Optimized boot behavior (Reset level at the option modules)

The printed circuit board 3.0103.04.B04 is introduced with AT141_07 from May 05, 2007.

- Optimizing of Assembly (No Boot Strip Loader Function)

FPGA software history

The FPGA-software 1.05 is the first official version.

Firmware history

The Firmware-software 2.11 is the first official version.

Indication

Frozen software-state of the main line BM4-CAN-03-00-00 for customer Beyerle.

In the mean time it was removed by BM4-CAN-03-00-07.

Type: BM4-O-CAN-03-00-07

Part No.: 38324

Function: CANopen-Slave Interface for software version 01

Presuppositions: BM44XX-XX-XXXXX -01

Information of nameplate:

BM4-O-CAN-03 - 00 - 07 - yyy - zzz					
LP 3.0103.04.Xxx					
D200:	6.1297.0105				
D400:	6.1294.0213				
				Firmware	FPGA-SW
				6.1294.	6.1297
3.0103.04	LP-Version				
	B03	000	000	0213	0105
	B04	001	000	0213	0105

Hardware history

The printed circuit board 3.0103.04.B03 is the first official version.

The printed circuit board 3.0103.04.B04 is introduced with AT141_07 from May 05, 2007.

- Optimizing of Assembly (No Boot Strip Loader Function)

FPGA software history

The FPGA-software 1.05 is the first official version.

Firmware history

The Firmware-software 2.13 is the first official version.

Indication

Frozen software-state of the main line BM4-CAN-03-00-00 for customer Beyerle.

4. CANopen Slave Interface for Software 03 (Customer's version Battenfeld)

Type: BM4-O-CAN-03-00-04

Part No.: 380896

Function: CANopen-Slave Interface for software version 03

Presuppositions: BM44XX-XX-XXXXX-03

BM4-O-CAN-03		00	04	yyy	zzz		
LP	3.0103.04.Xxx						
D200:	6.1297.xxxx						
D400:	6.1294.03xx						
						Firmware	FPGA-SW
						6.1294.	6.1297
3.0103.04						B302b54	0105
	LP-Version						
	B02		000		001	B302b54	0105
	B03		001		001	B302b54	0105
	B04		002		001	B302b54	0105

Software-version prototype for firm Battenfeld state of development, it is replaced with official release with firm Battenfeld. (It is replaced afterwards with BM4-O-CAN-03-00-01).

Hardware history

The printed circuit board 3.0103.04.B02 is the first official version.

The printed circuit board 3.0103.04.B03 is introduced with AT076_05 from March 23, 2005.

- Optimized boot behavior (Reset level at the option modules)

The printed circuit board 3.0103.04.B04 is introduced with AT141_07 from May 05, 2007.

- Optimizing of Assembly (No Boot Strip Loader Function)

FPGA software history

The FPGA-software 1.05 is the first official version.

- Insertion of Field bus objects for Motion Control and Battenfeld PN: 1000-366- 73

Firmware history

The Firmware-software B302 b54 is the first official version.

5. CANopen Slave Interface for Software 03 (Customer's version Netstal)

Type: BM4-O-CAN-03-00-06

Part No.: 380896

Function: CANopen-Slave Interface for software version 03

Presuppositions: BM44XX-XX-XXXXX-03

Information of nameplate:

BM4-O-CAN-03		00	06	yyy	zzz		
LP 3.0103.04.Xxx							
D200:	6.1297.0105						
D400:	6.1294.b302 b53						
	3.0103.04	B02		001	000	Firmware 6.1294.	FPGA-SW 6.1297
		B02		001	001	B302b53	0105
		B04		002	001	0305	0105

This version has a frozen software version, so no changes of the software are permitted for this model. Arranged for firm Netstal.

Hardware history

The printed circuit board 3.0103.04.B02 is the first official version.

The printed circuit board 3.0103.04.B04 is introduced with AT141_07 from May 05, 2007.

- Optimizing of Assembly (No Boot Strip Loader Function)

Firmware history

The Firmware-software B302. b53 is the first official version.

The Firmware-software 30.05 is introduced with AT232_05 from July 14, 2005.

- The change was arranged by the firm the Netstal

FPGA software history

The FPGA-software 1.05 is the first official version.