

The iCub CAN protocol for the sensor boards

This document describes the iCub CAN protocol with focus on the sensor boards.

Approval History

Version	Author		Date	Approved		Date
1.0	M. Accame	IIT - HSP				

Revision History

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0.5	14 Nov 18	M. Accame	First WIP version.
0.9	10 Dec 18	M. Accame	Covered all sensor boards. Added most common use cases.
1.0	25 Mar 19	M. Accame	Added new boards (rfe, sg3, psc, mtb4w) and new POS messages
1.1	11 Apr 19	M. Accame	Clarified format of POS messages
1.2	16 May 19	M. Accame	Added picture of the skin triangle
1.3	30 Jul 19	M. Accame	Added a new mode in message config board skin

Table of Contents

1	Introduction	1
2	The iCub CAN protocol	2
2.1	The structure of the CAN frame	2
2.1.1	The ID	3
2.1.2	The PAYLOAD.....	3
2.2	The iCub network	4
2.2.1	The iCub host	4
2.2.1.1	Examples of possible hosts	4
2.2.2	The iCub CAN nodes	6
2.2.2.1	Valid addresses	6
2.2.2.2	Processes executed by a CAN node: bootloader and application	6
2.2.2.3	The board types	7
2.2.2.4	Icons used to represent the nodes	8
2.3	The supported communication modes	9
2.3.1	Transport modes.....	9
2.3.1.1	Unicast transport	9
2.3.1.2	Broadcast transport	9
2.3.1.3	Streaming transport	10
2.3.2	Operations.....	10
2.3.2.1	The SET<> operation is used to impose a value	10
2.3.2.2	The GET<> operation is used to retrieve a value with REPLY<>	11
2.3.2.3	The ORDER<> operation is used to impose an action or a behaviour	11
2.3.2.4	The STREAM<> operation is used to transport a value	11
2.3.3	Messages accepted by a CAN node	12
2.4	The iCub CAN protocol classes	13
2.4.1	The command classes.....	13
2.4.2	The streaming classes.....	13
2.5	The services offered by the CAN protocol.....	15
2.5.1	The management service	15

2.5.2	The MC service.....	15
2.5.3	The FT service.....	15
2.5.4	The HES service	15
2.5.5	The Skin service	16
2.5.6	The basic inertial service	16
2.5.7	The IMU service.....	16
2.5.8	The THERMO service	16
2.5.9	The POS service.....	16
3	The messages in the command classes.....	17
3.1	Class management / bootloader	17
3.1.1	Messages used for general management of boards.....	18
3.1.2	Messages used in the firmware update procedure.....	23
3.2	Class polling motor control	28
3.2.1	Messages used for general management of boards.....	28
3.2.2	All the other messages.....	29
3.3	Class polling analog sensors	30
3.3.1	Messages used for general management of boards.....	31
3.3.2	Messages for managing the FT and HES data service.....	34
3.3.3	Messages for managing the IMU service.....	39
3.3.4	Messages for managing the THERMO service	42
3.3.5	Messages for managing the Skin service	45
3.3.6	Messages for managing the accel / gyro in mtb boards.....	47
3.3.7	Messages for advanced configuration of the FT service.....	48
3.3.7.1	Backwards compatibility of messages that contain a regulation set	48
3.3.7.2	Messages that select/query a regulation set	49
3.3.7.3	Messages that operate on the content of a given regulation set	51
3.3.7.4	Messages for a generic amplifier	62
3.3.7.5	Messages specific for the PGA308 amplifiers in strain2 boards	68
3.3.7.6	Other messages	70
3.3.8	Messages for managing the POS service.....	71
4	The messages of the streaming classes	76
4.1	Class periodic motor control	76
4.1.1	Messages supported by all boards.....	77
4.1.2	All the other messages.....	77
4.2	Class periodic analog sensors	78
4.2.1	Messages which stream user-defined data.....	79
4.2.2	Messages which stream POS data	80
4.2.3	Messages which stream FT data	81
4.2.4	Messages which stream HES data.....	85
4.2.5	Messages which stream THERMO data.....	86
4.3	Class periodic skin data.....	87

4.3.1	Messages which stream SKIN data.....	88
4.3.2	Messages which stream POS data	89
4.4	Class periodic inertial data.....	90
4.4.1	Messages which stream IMU data	91
4.4.2	Messages which stream accel and gyro in mtb boards	94
5	Which messages on which board	96
5.1	The parsers and the formers	96
5.2	The formers / parsers on each board	100
6	Details of the services.....	102
6.1	The FT in strain / strain2 boards	102
6.1.1	The FT data flow	102
6.1.2	Used data formats.....	104
6.1.3	The FT settings of strain / strain2 boards	104
6.1.4	The values of the regulation set	105
6.1.5	Which regulation set is applied	105
6.1.6	Modifications to the values of the regulation set.....	106
6.1.7	Differences in the analog stage between strain and strain2.....	106
6.1.7.1	The offset in strain	106
6.1.7.2	The programmable amplifiers PGA308 in strain2	106
6.1.8	Streaming rate	109
6.2	The IMU in mtb4 / strain2 / rfe boards.....	110
6.2.1	The used IMU: Bosch BNO055.....	110
6.2.2	Used data formats.....	110
6.2.3	Streaming rate	110
6.3	The SKIN in mtb / mtb4 boards.....	111
6.3.1	The skin patch	111
6.3.2	Used data formats.....	111
6.3.3	Streaming rate	111
6.4	The accelerometer and gyroscope in mtb boards.....	113
6.4.1	The used chips: LIS331DLH and L3G4200D by STMicroelectronics	113
6.4.2	Used data formats.....	113
6.4.3	Streaming rate	113
6.5	The THERMO in mtb4 / strain2 boards	114
6.5.1	The used chip: SI7051 by Silicon Labs.....	114
6.5.2	Used data formats.....	114
6.5.3	Streaming rate	114
6.6	The POS in psc board	115
6.6.1	The used chip: Infineon TLV493D.....	115
6.6.2	Used data formats.....	115
6.6.3	Streaming rate	115

7	Typical scenarios	116
7.1	A CAN network.....	116
7.2	Discovery of nodes.....	116
7.2.1	Basic discovery	116
7.2.2	More detailed discovery.....	118
7.3	Management of nodes.....	119
7.3.1	Change the additional information.....	119
7.3.2	Change the CAN address.....	121
7.3.3	Change the CAN address in a random way.....	122
7.3.4	The firmware update procedure	123
7.4	The FT service	124
7.4.1	Configuration of FT service.....	124
7.4.2	Start of the FT service	126
7.4.3	Stop of the FT service	127
7.5	The IMU service	129
7.5.1	Configuration of IMU service.....	129
7.5.2	Start of IMU service.....	131
7.5.3	Stop of IMU service.....	134
7.6	The THERMO service	135
7.6.1	Configuration of THERMO service	135
7.6.2	Start of THERMO service	137
7.6.3	Stop of THERMO service	139
7.7	The SKIN service	140
7.7.1	Configuration of the SKIN service	140
7.7.2	Start of the SKIN service	142
7.7.3	Stop of the SKIN service.....	145
7.8	Advanced configuration of the strain2 for FT service.....	146
7.8.1	Use of a different regulation set at bootstrap	146
7.8.2	Saving to EEPROM the changes done on a regulation set.....	149
7.8.3	Use of a different temporary regulation set	150
7.8.4	Tuning of the analog front end of a given regulation set.....	152
7.8.5	Tune the offset of the analog front end to move the ADC acquisition at midrange.....	154
7.9	The POS service	156
7.9.1	Configuration of POS service.....	156
7.9.2	Start of POS service.....	158
7.9.3	Stop of POS service.....	160
8	Conclusions.....	161
9	References.....	162

1 Introduction

This document describes the iCub CAN protocol used by the sensor boards: strain, strain2, mtb, mtb4, and mais.

The first part deals with the general format of the CAN frame in the iCub protocol and details on the messages.

The second part gives details of data format used in the messages and of their acquisition flow,

Finally, a third part contains examples of how to use these messages in the most common scenarios.