

1. Version history

Version	Date	Change/addition	Chapter
01-10/22	10/25/2022	Prepared	All

2. Library content

The library folders include data types for the bus modules, locking modules, expansion modules and submodules. They also include data types for complete sets, including safe data types and data types for sets without bus module.

The library furthermore includes preconfigured hardware for easy configuration of the available complete sets.

Library_MGB2modular_TIAV14SP1_20221025

- ▶ Types
- ▼ Master copies
 - ▼ 01_MGB2 Types
 - ▶ 00_MBM
 - ▶ 01_MGB2
 - ▶ 02_MCM
 - ▶ 01_MCM 4 Slots
 - ▶ 02_MCM 2 Slots
 - ▶ 03_MSM
 - ▶ 04_SET
 - ▶ 05_SET_WITHOUT_MBM
 - ▶ 02_MGB2 Sets Hardware
- ▶ Common data
- ▶ Languages & resources

3. Data types

3.1. Bus module MBM

Data type	Description
typeInMbmBasic	Data type for the input data structure of the bus module according to the data sheet. Valid for all bus modules that are configured with basic diagnostics.
typeInMbmExtended	Data type for the input data structure of the bus module according to the data sheet. Valid for all bus modules that are configured with expanded diagnostics.
typeOutMbm	Data type for the output data structure of the bus module according to the data sheet. Valid for all bus modules.

3.2. Locking module MGB2

Data type	Description
typeInMgb2Basic	Data type for the input data structure of the locking module according to the data sheet. Valid for all locking modules that are configured with basic diagnostics.
typeInMgb2Extended	Data type for the input data structure of the locking module according to the data sheet. Valid for all locking modules that are configured with expanded diagnostics.
typeOutMgb2	Data type for the output data structure of the locking module according to the data sheet. Valid for all locking modules.

3.3. Expansion module MCM

Data type	Description
typeInMcm4SlotBasic typeInMcm2SlotBasic	Data type for the input data structure of the expansion module (2 or 4 slots) according to the data sheet. Valid for all expansion modules that are configured with basic diagnostics.
typeInMcm4SlotExtended typeInMcm2SlotExtended	Data type for the input data structure of the expansion module (2 or 4 slots) according to the data sheet. Valid for all expansion modules that are configured with expanded diagnostics.
typeOutMcm4SlotNoSI typeOutMcm2SlotNoSI	Data type for the output data structure of the expansion module (2 or 4 slots) according to the data sheet. Valid for all expansion modules that are configured without stack light.
typeOutMcm4SlotSI typeOutMcm2SlotSI	Data type for the output data structure of the expansion module (2 or 4 slots) according to the data sheet. Valid for all expansion modules that are configured with stack light.

3.4. Submodule MSM

Data type	Description
xxxxx_typeInBasic	Data type for the input data structure of the submodule according to the data sheet. Valid for the item numbers/SW IDs that precede the data type and are configured with basic diagnostics.
xxxxx_typeInExtended	Data type for the input data structure of the submodule according to the data sheet. Valid for the item numbers/SW IDs that precede the data type and are configured with expanded diagnostics.
xxxxx_typeOut	Data type for the output data structure of the submodule according to the data sheet. Valid for the item numbers/SW IDs that precede the data type.

3.4.1. Submodules contained

126062	126381	127040	136687	137020	137596	137597	137738	137740	137742
137744	137746	137748	137750	137752	155860	157218	157721	158906	159480
159482	159484	161045	161739	161861	162700	163119	163364	163855	164048
164058	164819	164925	165040	165078	165628	165632	167136	167267	167736
168594	168595	168644							

3.4.2. Software IDs contained

Software ID	Order ID
9000001	▶ 161589, 162930, 163609, 164333, 165201, 167902
9000002	▶ 162927, 164633, 166181
9000003	▶ 161921, 164660, 168641, 170572
9000004	▶ 161474
9000005	▶ 160626
9000006	▶ 165823, 166725
9000007	▶
9000008	▶
9000009	▶ 167906
9000010	▶
9000011	▶
9000012	▶ 164338, 169470
9000013	▶
9000014	▶
9000015	▶
9000016	▶
9000017	▶ 163611
9000018	▶ 163610, 163612
9000019	▶
9000020	▶
9000021	▶
9000022	▶ 166861
9000023	▶ 163873
9000024	▶ 164629
9000025	▶ 164730
9000026	▶ 164821
9000027	▶
9000028	▶
9000029	▶
9000030	▶
9000031	▶ 165313
9000032	▶
9000033	▶ 166191
9000034	▶ 166705, 169563
9000035	▶
9000036	▶ 167100
9000037	▶
9000038	▶ 167632
9000039	▶ 169417
9000040	▶ 169421
9000041	▶ 169425
9000042	▶ 169466
9000043	▶ 169462
9000044	▶ 169473
9000045	▶ 169456

3.5. Complete set MGB2

Data type	Description
xxxxx_typeInBasic	Data type for the input data structure of the complete set according to the data sheet. Valid for the item numbers that precede the data type and are configured with basic diagnostics.
xxxxx_typeInExtended	Data type for the input data structure of the complete set according to the data sheet. Valid for the item numbers that precede the data type and are configured with expanded diagnostics.
xxxxx_typeInSafety	Data type for the safe input data structure of the complete set according to the data sheet. Valid for the item numbers that precede the data type.
xxxxx_typeOut	Data type for the output data structure of the complete set according to the data sheet. Valid for the item numbers that precede the data type.
xxxxx_typeOutSafety	Data type for the safe output data structure of the complete set according to the data sheet. Valid for the item numbers that precede the data type.

3.5.1. Complete sets contained

156386	156387	156388	156389	156390	156391	157373	158638	161652	161653
161930	161931	162703	162705	162706	162708	162937	162938	163576	163577
163580	163582	165050	165051	165351	165352	165372	165727	165728	165729
165731	166871	166872	167617	167618	168092	168719	168720	169895	169896

3.6. Set without bus module

Data type	Description
xxxxx_typeInBasic	Data type for the input data structure of the set according to the data sheet. Valid for the item numbers that precede the data type and are configured with basic diagnostics.
xxxxx_typeInExtended	Data type for the input data structure of the set according to the data sheet. Valid for the item numbers that precede the data type and are configured with expanded diagnostics.
xxxxx_typeOut	Data type for the output data structure of the set according to the data sheet. Valid for the item numbers that precede the data type.
xxxxx_typeOutNoSI	Data type for the output data structure of the set according to the data sheet. Valid for the item numbers that precede the data type and are configured without stack light.
xxxxx_typeOutSI	Data type for the output data structure of the set according to the data sheet. Valid for the item numbers that precede the data type and are configured with stack light.

3.6.1. Sets contained

136797	136803	137554	155996	156374	156377	156379	156381	156835	157241
157244	157774	157989	157998	161648	161650	161924	161926	161928	161929
162534	162535	162933	162935	163584	163645	163651	163672	163677	164653
164662	164663	164664	164666	164823	164824	164825	164827	164829	164830
164831	164833	164901	164903	165052	165054	165206	165207	165209	165212
165353	165355	165373	165561	165562	165563	165564	165567	165568	165569
165570	165752	165753	166549	166682	166683	166691	166693	166873	166875
166885	166887	166890	167033	167034	167035	167037	167619	167621	168094
168721	168724	168957	168958	169359	169360	169897	169899	170046	170048
170478	170481	170579	170580	170581	170583				