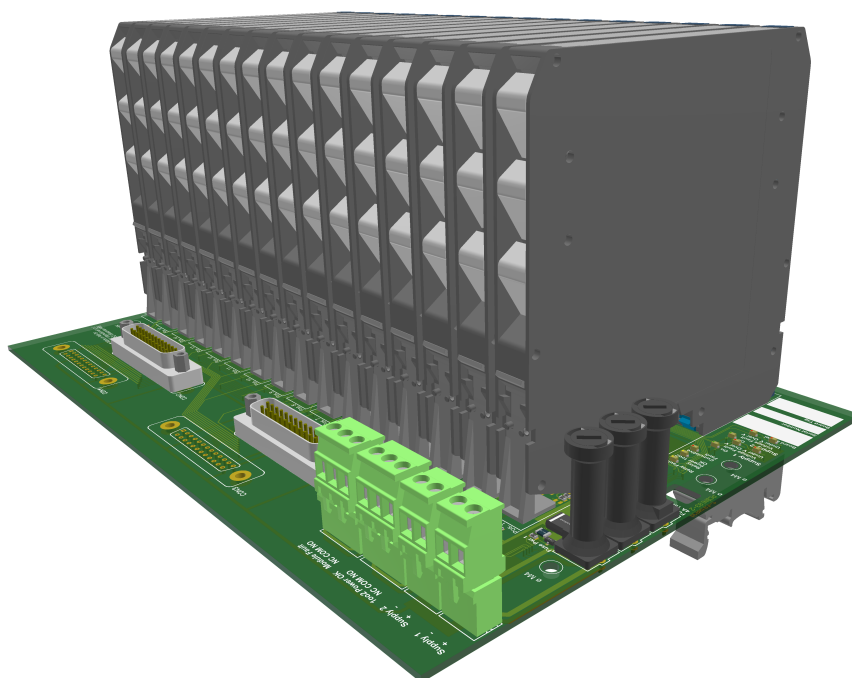# Customized Termination Boards D5000/D6000 Series

ABB S800 I/O

These Termination Boards, with (TBE) or without (TB) metal enclosure, provide direct connection between the I/O Card of the system and D5000 / D6000 Series modules, which interface the field. Intrinsically Safe protection and signal isolation between Safe and Hazardous Area are provided by D5000 Series Associated Apparatus. 24 Vdc Power Supply of the TB is connected to two plug-in terminal blocks to enforce redundancy. Power supplies out of range and cumulative module fault can be monitored through a dedicated contact. Modules are supplied via Termination Board power bus. TB are provided with one universal mounting kit for wall and DIN-Rail, while TBE can be mounted on DIN-Rail with either plastic or metal clips, depending on the chosen accessory.

ABB S800 I/O
IS Applications

Analog Input

I/O Cards	Card Ch.	TB Model	TB Pos.	GMI Modules	Card Qty.	Cable	Notes
AI880(A) (TU854)	8	TB-D5008-ABB-001	8	D5011S, D5014S, D5015SS, D5016SS, D5072S	1(+1)		
AI880(A) (TU854)	8	TB-D5008-ABB-001	8	D5011D, D5014D, D5016DS, D5072D	2(+2)		
AI810 AI815 (TU812)	8	TB-D5008-ABB-001	8	D5011S, D5014S, D5015SS, D5016SS, D5072S	1		(0)4-20 mA
AI810 AI815 (TU812)	8	TB-D5008-ABB-001	8	D5011D, D5014D, D5016DS, D5072D	2		(0)4-20 mA
AI810 AI815 (TU812)	8	TB-D5008-ABB-003	8	D5011S, D5014S, D5015SS, D5016SS, D5072S	1		(0)2-10 V
AI810 AI815 (TU812)	8	TB-D5008-ABB-003	8	D5011D, D5014D, D5016DS, D5072D	2		(0)2-10 V
AI845 (TU812)	8	TB-D5008-ABB-001	8	D5011S, D5014S, D5015SS, D5016SS, D5072S	1		(0)4-20 mA
AI845 (TU812)	8	TB-D5008-ABB-001	8	D5011D, D5014D, D5016DS, D5072D	2		(0)4-20 mA
AI845 (TU812)	8	TB-D5008-ABB-004	8	D5011S, D5014S, D5015SS, D5016SS, D5072S	1		(0)1-5 V
AI845 (TU812)	8	TB-D5008-ABB-004	8	D5011D, D5014D, D5016DS, D5072D	2		(0)1-5 V

Analog Output

I/O Cards	Card Ch.	TB Model	TB Pos.	GMI Modules	Card Qty.	Cable	Notes
AO810 AO815 AO845 (TU812)	8	TB-D5008-ABB-002	8	D5020S	1		
AO810 AO815 AO845 (TU812)	8	TB-D5008-ABB-002	8	D5020D	2		
AO845 (TU852)	8	TB-D5008-ABB-002	8	D5020S	1(+1)		
AO845 (TU852)	8	TB-D5008-ABB-002	8	D5020D	2(+2)		

Digital Input

I/O Cards	Card Ch.	TB Model	TB Pos.	GMI Modules	Card Qty.	Cable	Notes
AI880 as DI (TU854)	8	TB-D5008-ABB-001	8	D5038SA, D5039SA	1(+1)		
AI880 as DI (TU854)	8	TB-D5008-ABB-001	8	D5038DA, D5038XA, D5039DA, D5039XA	2(+2)		
DI810 DI830 DI840 DI880 (TU812)	16	TB-D5016-ABB-001	16	D5031S, D5032S, D5037S	1		
DI810 DI830 DI840 DI880 (TU812)	16	TB-D5016-ABB-001	16	D5031D, D5032D, D5037D	2		
DI840 DI880 (TU852)	16	TB-D5016-ABB-003	16	D5031S, D5032S, D5037S	1(+1)		
DI840 DI880 (TU852)	16	TB-D5016-ABB-003	16	D5031D, D5032D, D5037D	2(+2)		
DI814 (TU812)	16	TB-D5016-ABB-002	16	D5031S, D5032S, D5037S	1		
DI814 (TU812)	16	TB-D5016-ABB-002	16	D5031D, D5032D, D5037D	2		

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I/O Cards	Card Ch.	TB Model	TB Pos.	GMI Modules	Card Qty.	Cable	Notes
DI818 (TU819)	32	TB-D5016-ABB-001	16	D5031S, D5032S, D5037S	½		
DI818 (TU819)	32	TB-D5016-ABB-001	16	D5031D, D5032D, D5037D	1		
DI840 DI880 (TU852)	16	TB-D5016-ABB-004	16	D5031D, D5032D	1(+1)		Second channel used as duplication or fault
DI818 (TU819)	32	TB-D5016-ABB-004	16	D5031D, D5032D	½		Second channel used as duplication or fault
DI840 DI880 (TU852)	16	TB-D5016-ABB-004	16	D5031D, D5032D	1(+1)		Second channel used as duplication or fault
DI810 DI830 DI840 DI880 (TU812)	16	TB-D5016-ABB-004	16	D5031D, D5032D	1		Second channel used as duplication or fault

Digital Output

I/O Cards	Card Ch.	TB Model	TB Pos.	GMI Modules	Card Qty.	Cable	Notes
DO810 DO840 DO880 (TU812)	16	TB-D5016-ABB-002	16	D5040S, D5048S, D5049S	1		
DO810 DO840 DO880 (TU812)	16	TB-D5016-ABB-002	16	D5040D	2		
DO840 DO880 (TU852)	16	TB-D5016-ABB-002	16	D5040S, D5048S, D5049S	1(+1)		
DO840 DO880 (TU852)	16	TB-D5016-ABB-002	16	D5040D	2(+2)		
DO814 (TU812)	16	TB-D5016-ABB-001	16	D5040S, D5048S, D5049S	1		
DO814 (TU812)	16	TB-D5016-ABB-001	16	D5040D	2		
DO818 (TU819)	32	TB-D5016-ABB-002	16	D5040S, D5048S, D5049S	½		
DO818 (TU819)	32	TB-D5016-ABB-002	16	D5040D	1		

ABB S800 I/O
NON-IS Applications
Analog Input

I/O Cards	Card Ch.	TB Model	TB Pos.	GMI Modules	Card Qty.	Cable	Notes
AI880(A) (TU854)	8	TB-D5008-ABB-001	8	D6001S, D6002S, D6004S, D6011S, D6014S, D6015SS, D6016SS, D6017SS, D6072S	1(+1)		
AI880(A) (TU854)	8	TB-D5008-ABB-001	8	D6000D, D6001D, D6004D, D6011D, D6014D, D6016DS, D6072D	2(+2)		
AI810 AI815 (TU812)	8	TB-D5008-ABB-001	8	D6001S, D6002S, D6004S, D6011S, D6014S, D6015SS, D6016SS, D6017SS, D6072S	1		(0)4-20 mA
AI810 AI815 (TU812)	8	TB-D5008-ABB-001	8	D6000D, D6001D, D6004D, D6011D, D6014D, D6016DS, D6072D	2		(0)4-20 mA
AI810 AI815 (TU812)	8	TB-D5008-ABB-003	8	D6001S, D6002S, D6004S, D6011S, D6014S, D6015SS, D6016SS, D6017SS, D6072S	1		(0)2-10 V
AI810 AI815 (TU812)	8	TB-D5008-ABB-003	8	D6000D, D6001D, D6004D, D6011D, D6014D, D6016DS, D6072D	2		(0)2-10 V
AI845 (TU812)	8	TB-D5008-ABB-004	8	D6001S, D6002S, D6004S, D6011S, D6014S, D6015SS, D6016SS, D6017SS, D6072S	1		(0)1-5 V
AI845 (TU812)	8	TB-D5008-ABB-004	8	D6000D, D6001D, D6004D, D6011D, D6014D, D6016DS, D6072D	2		(0)1-5 V

Analog Output

I/O Cards	Card Ch.	TB Model	TB Pos.	GMI Modules	Card Qty.	Cable	Notes
AO810 AO815 AO845 (TU812)	8	TB-D5008-ABB-002	8	D6001S, D6002S, D6020S	1		
AO810 AO815 AO845 (TU812)	8	TB-D5008-ABB-002	8	D6000D, D6001D, D6020D	2		
AO845 (TU852)	8	TB-D5008-ABB-002	8	D6001S, D6002S, D6020S	1(+1)		
AO845 (TU852)	8	TB-D5008-ABB-002	8	D6000D, D6001D, D6020D	2(+2)		

Digital Input

I/O Cards	Card Ch.	TB Model	TB Pos.	GMI Modules	Card Qty.	Cable	Notes
AI880 as DI	8	TB-D5008-ABB-001	8	D6001S, D6002S, D6038SA, D6039SA	1(+1)		
AI880 as DI	8	TB-D5008-ABB-001	8	D6000D, D6001D, D6038DA, D6038XA, D6039DA, D6039XA	2(+2)		
DI810 DI830 DI840 DI880 (TU812)	16	TB-D5016-ABB-001	16	D5093S, D6001S, D6002S, D6031S, D6032S, D6037S	1		
DI810 DI830 DI840 DI880 (TU812)	16	TB-D5016-ABB-001	16	D5093D, D6000D, D6001D, D6031D, D6032D, D6037D	2		
DI840 DI880 (TU852)	16	TB-D5016-ABB-003	16	D5093S, D6001S, D6002S, D6031S, D6032S, D6037S	1(+1)		
DI840 DI880 (TU852)	16	TB-D5016-ABB-003	16	D5093D, D6000D, D6001D, D6031D, D6032D, D6037D	2(+2)		
DI814 (TU812)	16	TB-D5016-ABB-002	16	D5093S, D6001S, D6002S, D6031S, D6032S, D6037S	1		
DI814 (TU812)	16	TB-D5016-ABB-002	16	D5093D, D6000D, D6001D, D6031D, D6032D, D6037D	2		

I/O Cards	Card Ch.	TB Model	TB Pos.	GMI Modules	Card Qty.	Cable	Notes
DI818 (TU819)	32	TB-D5016-ABB-001	16	D5093S, D6001S, D6002S, D6031S, D6032S, D6037S	1		
DI818 (TU819)	32	TB-D5016-ABB-001	16	D5093D, D6000D, D6001D, D6031D, D6032D, D6037D	½		
DI840 DI880 (TU852)	16	TB-D5016-ABB-004	16	D6031D, D6032D	1(+1)		Second channel used as duplication or fault
DI818 (TU819)	32	TB-D5016-ABB-004	16	D6031D, D6032D	½		Second channel used as duplication or fault
DI840 DI880 (TU852)	16	TB-D5016-ABB-004	16	D6031D, D6032D	1(+1)		Second channel used as duplication or fault
DI810 DI830 DI840 DI880 (TU812)	16	TB-D5016-ABB-004	16	D6031D, D6032D	1		Second channel used as duplication or fault

Digital Output

I/O Cards	Card Ch.	TB Model	TB Pos.	GMI Modules	Card Qty.	Cable	Notes
DO810 DO840 DO880 (TU812)	16	TB-D5016-ABB-002	16	D5090S, D5091S, D5094S, D5095S, D5096S, D5096S-100, D5097S, D5098S, D6001S, D6002S	1		
DO810 DO840 DO880 (TU812)	16	TB-D5016-ABB-002	16	D6000D, D6001D, D5098D	2		
DO810 DO840 DO880 (TU812)	16	TB-D5208-ABB-001	8+8	D5290S, D5291S, D5293S, D5294S, D5295S	1		
DO840 DO880 (TU852)	16	TB-D5016-ABB-002	16	D5090S, D5091S, D5094S, D5095S, D5096S, D5096S-100, D5097S, D5098S, D6001S, D6002S	1(+1)		
DO840 DO880 (TU852)	16	TB-D5016-ABB-002	16	D6000D, D6001D, D5098D	2(+2)		
DO840 DO880 (TU852)	16	TB-D5208-ABB-001	8+8	D5290S, D5291S, D5293S, D5294S, D5295S	1(+1)		
DO814 (TU812)	16	TB-D5016-ABB-001	16	D5090S, D5091S, D5094S, D5095S, D5096S, D5096S-100, D5097S, D6001S, D6002S	1		
DO814 (TU812)	16	TB-D5016-ABB-001	16	D6000D, D6001D, D5098D	2		
DO818 (TU819)	32	TB-D5016-ABB-002	16	D5090S, D5091S, D5094S, D5095S, D5096S, D5096S-100, D5097S, D6001S, D6002S	½		
DO818 (TU819)	32	TB-D5016-ABB-002	16	D6000D, D6001D, D5098D	1		