

Standard Transmission Module ATBEG/Vv Product sheet



This STM ATBEG/Vv has been developed to be used with any TSI CCS Baseline 3 Release 2 compliant EVC adhering to the standardised Profibus interface compliant with the TSI CCS subsets 035, 056, 057, 058 and 059. The unit has been developed in accordance with EU railway standards as a generic onboard ATP system to be compatible with the ATB-EG requirements from National Regulations. This STM ATBEG/Vv is suitable for application in any railway vehicle. It is equipped with versatile interfaces for power supply, brake-sensors, external cab-audio and all currently available ATB-EG antenna coils. The designed system lifetime is 30 years.

The STM has been engineered to be the smallest line side replaceable unit. In case of a defect it can be replaced within 5 to 10 minutes. The system does not require any specific configuration, making it a uniform system for any rolling stock vehicle. The vehicle/train specific information is received from the EVC. Because there is no need for periodic calibration, the maintenance costs are minimized.



Dimensions	Enclosure (LxWxH)	Installation dimensions (LxWxH)
	220 mm (depth) x	230 mm x 70 mm x 120 mm
	70 mm (width) x	
	132 mm (height = 3HU)	
Power supply requirements	Supply voltage	Average load
Nominal characteristics	$24-110\;V_{DC}$	20W
Interfaces	Туре	Connector
STM ATBEG <=> ETCS onboard	Profibus	1 male SubD-9P,
		1 female SubD-9P
STM ATBEG <=> Analog inputs	ATB antenna's,	1 male SubD-15P,
	pressure sensors	1 female SubD-15P
STM ATBEG <=> Power and Digital I/O	PSU,	1x DIN41612-F-48P
	digital I/O	
RAMS		
Reliability	t.b.d.	
Availability	t.b.d.	
Maintainability	MTTR 10 min	
Safety	SIL 3	
Environmental conditions	Minimum	Maximum
Ambient temperature Storage	-25 °C	+85 °C
Applicable regulations	Compatibility	Certified
EU regulations for STM	TSI CCS 2016-919-EU	Baseline 3 release 2 (Subset-035, 056, 057, 058, 059)
EU regulations for Restriction of	2002/95/EG	
Hazardous Substances (RoHS)	2011/65/EU	
and materials (REACH)	2006/1907/EU	
NL regulations for ATB-EG onboard	Regeling Indienststelling	IENM/BSK-2012/28591
equipment	Spoorvoertuigen	amended
	2016	IENM/BSK-2016/299765
Railway standards		Certified
	EN50155, EN50159,	EN50126-1, EN50126-2
	EN50121, EN50124, EN50125, EN45545	EN50128, EN50129,