



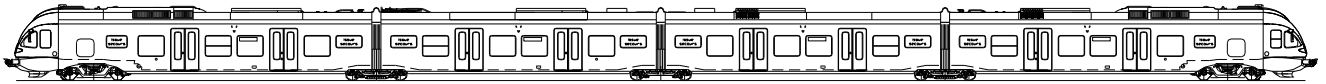
## ***Electric Low-floor Multiple-unit FLIRT for the SNTF, S-Bahn Algiers***

The Algerian National Railway (SNTF) procures 64 S-Bahn trains for Algiers. The FLIRT for SNTF is an electrical (25 kV/50Hz) 4-unit railcar with room for 786 standing (8p/m<sup>2</sup>) and 144 seated passengers in the 2<sup>nd</sup> class compartment for the suburban line. In order to cope with the significant passenger volume, up to 4 FLIRTs can be connected together and thereby transport over 3720 passengers. This FLIRT is fitted with 8 doors per side to allow for a rapid exchange of passengers. Its maximum speed is 120 km/h. The FLIRT is noted for an exceptional acceleration ability of up to 1.2 m/s<sup>2</sup>. The FLIRT will operate on Algiers' S-Bahn network.

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## Technical features

- Bright, passenger-friendly interior with customized design
- End-to-end walk-through passenger compartment, with no steps
- Low-floor section > 90%
- Spacious multipurpose area in entrance section
- 8 doors on each side for rapid passenger access
- Air-conditioned passenger and driver compartments
- Ergonomically designed driver's cab
- Glass fibre reinforced front section with automatic coupling
- Welded extruded aluminium superstructure
- Air-suspended bogies
- Redundant traction chain with water-cooled IGBT power converters
- Vehicle control system with train bus and diagnostics computer (CAN open bus)
- Video monitoring
- Passenger information system
- Multiple-unit control for up to four vehicles

## Vehicle Data

Customer	SNTF (Société Nationale des Transports Ferroviaires), Algeria
Lines operated	Thénia – Alger – El Affroun
Gauge	1'435 mm
Designation	RBe 91 92 9 541 101 - 164
Catenary supply voltage	25 kVAC, 50 Hz
Axle arrangement	Bo' 2'2'2' Bo'
Number of vehicles	64
Service start-up	ab 2008
Seating capacity	144
Standing capacity (8 pers./m <sup>2</sup> )	786
Floor height	
Low floor	605 mm
High floor	1'125 mm
Door width	1'300 mm
Longitudinal strength	1'500 kN
Overall length	74'078 mm
Vehicle width	2'880 mm
Vehicle height	4'280 mm
Tare weight	120 t
Bogie wheelbase	
Power bogie	2'700 mm
Trailer bogies	2'700 mm
Powered wheel diameter (new)	870 mm
Trailer wheel diameter (new)	760 mm
Continuous output at wheel	2'000 kW
Maximum output at wheel	2'300 kW
Starting tractive power	
(up to 47 km/h)	200 kN
Max.acceleration at gross weight	1.2 m/s <sup>2</sup>
Maximum speed	120 km/h (160 km/h)

