



CITYLINK TRAM TRAIN

South Yorkshire Passenger Transport Executive (SYPT), Sheffield, UK

South Yorkshire Passenger Transport Executive (SYPT) ordered seven tram trains of the Citylink type in June 2013 for use on the first tram-train system in the UK, to operate on the Supertram tram network and on the national rail network between the cities of Sheffield and Rotherham.

The bidirectional light rail vehicles cover tramway applications and full train regional operations at 100 km/h and have been adapted to the particularities of the tram and rail network in the county of South Yorkshire. The dual-voltage vehicles meet British standards and are able to operate under 750 V DC overhead voltage (tram network) and 25 kV AC overhead voltage (railway network) and to work on tracks with a maximum gradient of 10%.

Citylink is a modular, barrier-free and low-floor light rail vehicle family specially designed to provide a safe and highly comfortable ride.

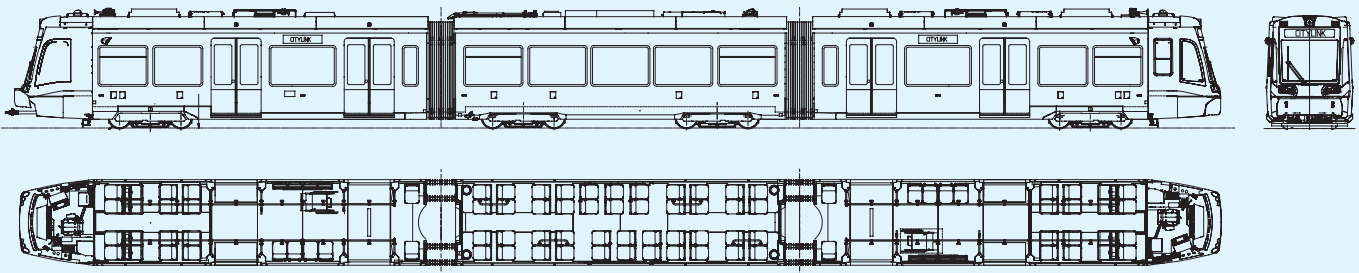
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Technical features

Technology

- Bidirectional light rail vehicle
- Certified according to British standards
- Nominal current supply: 750 V DC and 25 kV AC
- 3 motor bogies/1 trailer bogie
- Able to operate at very high gradients (10%)
- Lightweight structure made of high-strength stainless steel
- Real turning bogie with slewing ring and large-diameter wheels
- Smooth and silent operation with secondary air suspension and resilient wheels

Comfort

- Barrier-free low-floor vehicle
- Bright, pleasant passenger compartments with scope for individual design
- Air-conditioned passenger area
- 2 PRM areas and 2 spacious multifunctional areas

Personnel

- Air-conditioned driver's cab
- Ergonomically designed driver's cab with great visibility for city operation

Reliability / Availability / Maintainability / Safety

- Full EN 12663 P-III and EN 15227 C-III compliance
- Passenger counting system
- Surveillance CCTV system
- SIL2

Vehicle data

Customer	South Yorkshire Passenger Transport Executive (SYPTe)
Region	Sheffield, South Yorkshire County, UK
Number of vehicles	7
Commissioning	2017
Track gauge	1435 mm
Energy supply	750 V DC + 25 kV AC
Axle arrangement	Bo'2'Bo'Bo'
Vehicle length	37200 mm
Vehicle width	2650 mm
Vehicle height	3720 mm
Entrance height	425 mm
Seats	96
Standing capacity (4 pers./m²)	140
Doors	4 double doors per side
Wheel diamete	720 mm
Min. curve radius	22 m
Power traction motor	6 × 145 kW
Maximum gradient	10%
Maximum speed	100 km/h