



CITYLINK TRAM TRAIN

Transport for Wales

In January 2019, Stadler was awarded the contract to manufacture and supply 36 CITYLINK tram-trains and 35 FLIRT trains. The three-car tram-trains will operate on 25 kV AC lines and use battery power, with traction battery systems helping avoid costly infrastructure investments for the client. Adapted to suit the tram and rail network serving the South Wales Metro, these light rail vehicles can travel on both rail tracks and tram lines and have a driver's cab at each end. On the rail network, they can run at 100km/h. Forty metres long and able to carry 252 passengers, the high-floor vehicles feature spacious, bright and air-conditioned passenger compartments, with six multifunctional areas for bicycles, seats for people with reduced mobility, and two wheelchair passenger spaces. CITYLINK is a modular, barrier-free light rail vehicle family specially designed to connect the city centre with its outlying areas. Safe and highly comfortable, these tram-trains promote seamless travel for passengers and mean that they do not have to change modes.

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Technical features

Technology

- Bidirectional light rail vehicle
- Hybrid vehicle: 25KV AC + batteries
- Free catenary on-board technology based on batteries able to run long distances.
- Lightweight structure made of high-strength stainless steel
- Real turning bogie with slewing ring and large-diameter wheels
- Secondary air suspension for a smooth and silent operation

Comfort

- Barrier-free vehicle
- Bright, pleasant and air-conditioned passenger compartments with scope for individual design
- Regional train comfort seats and commodities
- Spacious multifunctional areas
- Double-leaf doors including ramp system
- Modern passenger information system

Staffing

- Air-conditioned driver's cab
- Ergonomically designed driver's desk
- Great visibility from driver's desk for city operation
- An additional driver's door with exclusive use

Reliability/ Availability/ Maintainability/ Safety

- Full EN 12663 P-III and EN 15227 C-III compliance
- Surveillance CCTV system
- Easy access for maintenance

Vehicle data

Customer	Transport for Wales
Region	Wales
Number of vehicles	36
Commissioning	2023
Track Gauge	1,435 mm
Energy Supply	25 KV AC + Batteries
Axle arrangement	Bo'2'2'Bo'
Vehicle length	40,070 mm
Vehicle width	2,650 mm
Entrance height	915 mm
Seats	126
Total capacity (4 pers./m²)	252
Doors	3 double-leaf doors per side
Wheel diameter	740 mm
Min. curve radius	25 m
Power traction motors	4 x 150 kW
Maximum speed	100 km/h