



## 26 FOUR-CAR 100% LOW-FLOOR TRAMS

# Avenio Tram GTA8 – Nuremberg, Germany

Siemens Mobility is one of the world's leading suppliers of integrated mobility solutions for urban areas and of vehicles for local, regional, and main-line transportation.

In November 2019, VAG Verkehrs-Aktiengesellschaft Nuremberg ordered twelve four-car trams of the Avenio type from Siemens Mobility. The contract includes options for up to 75 additional vehicles, 14 of which have already been ordered. These new low-floor streetcars are intended to strengthen VAG's service offering and for potential new lines. Commissioning is scheduled for the end of 2022.

The four-car Avenio streetcars will successively take up passenger service on the Nuremberg tramway network, which has five lines and covers an operating length of approximately 35 km.

### Technical Data

Vehicle type/platform	GTA8/100% low-floor single-articulated tram vehicle Avenio
Configuration	4-car tram for unidirectional operation
Wheel arrangement	2' Bo' Bo' Bo'
Car body material	Steel
Length	36,850 mm
Width	2,300 mm
Entrance height/floor height	300 mm above bogies
Motor power rating	6 x 100 kW
Power supply	DC 600 V/750 V
Maximum speed	70 km/h
Track gauge	1,435 mm
Capacity (4 pers./m <sup>2</sup> )	218 including 62 seats
Tare weight	approximately 45 t



### Technical features/highlights

- A high-performance air conditioning system and an innovative LED ceiling light design enhance the passenger experience.
- Modern energy-saving LCD passenger information screens and Internet provided via WLAN allow passengers to access up-to-date information.
- With its three powered bogies, the Avenio Nuremberg has excellent traction and high acceleration values for VAG's demanding and sometimes "mountainous" route profile.
- Spacious boarding areas and wide passageways improve passenger flow.
- The unique VAG seat design and the extra-wide seats increase passenger comfort.
- The interior and exterior design reflect the new VAG corporate design in a multitude of details, combining the company's modernization strategy with a sense of home and tradition.
- Intensive coordination with disabled rights organizations took place during the design phase. This made it possible to achieve the greatest possible usability of the tram for passengers with reduced mobility.
- Four multifunctional areas, two of which are designed as full wheelchair spaces, ensure optimal demand-oriented space utilization.
- Improved running characteristics and low wheel-rail wear thanks to longitudinally installed drives in the bogies with mechanical coupling of the wheels in the longitudinal direction, small unsprung masses, and proven bogie connection to the car body. Four video cameras to replace exterior mirrors.
- Compliant with the latest security standards (including IT security, fire protection). Four video cameras to replace exterior mirrors.
- Electro-dynamic brakes provide smooth and comfortable stopping to standstill.



Spacious boarding areas



Bright, multifunctional interior design



Modern passenger information systems

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