

CITADIS™ COMPACT

Alstom created Citadis Compact (22-24m length range) to meet the mobility needs of mid-sized cities (50,000-150,000 citizens) with all the advantages of a high performance tramway.

CITADIS RANGE KEY FIGURES

- Almost 5 billion passengers/400 million km to date
- 1578 Citadis trams in 40 cities
- 1270 Citadis trams in service

MAJOR REFERENCE
Aubagne (France)

General Description

Alstom created Citadis Compact (22-24m length range) to meet the mobility needs of mid-sized cities (50,000-150,000 citizens) with all the advantages of a high performance tramway versus all other urban solutions, including Bus Rapid Transit. Based on a 15-year success of approx. 1,600 Citadis trams sold worldwide – Citadis Compact is operable on mainline and feeder tramlines.

CUSTOMER BENEFITS

Design & Easy Insertion

—Citadis Compact's high visibility is designed and customized to set the tone for any city and Alstom's in-house Design & Styling can work with municipalities to create their unique tramway;

Comfort & Accessibility

—accommodates 139 passengers, with wide windows, air-conditioning, real-time passenger information; four double doors - a first in rolling stock of this length - improving passenger flow, reducing dwell time;

Competitive

—limited construction expenses, optimized maintenance cost over 30 years, reduced energy cost due to traction drive;

Green

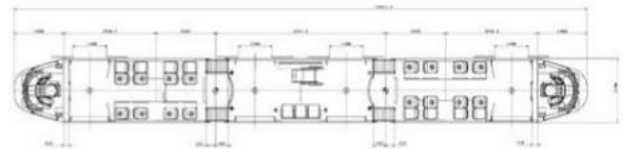
—zero emissions Citadis trams require 4 times less energy than a bus, 10 times less than a car and are 98% recyclable.



KEY TECHNICAL FEATURES

Vehicle length	22 m and 24 m versions	
Vehicle width	2.4 m and 2.65 m	
Track gauge	1435 mm	
Number of bogies per vehicle	2	
Number of car body modules per vehicle	3	
Provision for subsequent vehicle extension	to 5 car body modules / 3 bogies	
Low floor percentage	100%	
Floor height (entrance)	350 mm (above Top of Rail)	
Gangway width in section over bogies	740 mm	
Number and type of doors	4 double sliding door per side	
Seating configuration	modular arrangements (see diagram)	
Passenger Capacity (@4 pax/m ²)	Seated	27 to 35 depending on length and width of vehicle
	Standing	85 to 112 depending on length and width of vehicle
	TOTAL	120 to 139 depending on length and width of vehicle
	Comfort ratio ¹	up to 28,5%
	Exchange ratio ²	up to 30%
	Wheelchair positions	1 or 2
Passenger Information equipment	different packages available	
HVAC (Heating, Ventilation Air Conditioning)	independent controls for passenger and driver zones / scaled to relevant climatic conditions	
Motorization ratio	100% or 50%	
Maximum speed in service	70 km/h	
Maximum acceleration	1.3 m/s ²	
Service deceleration	1.2 m/s ²	
Compression load	400 kN	
Crash absorption resistance	meets EN15227 standards	
Minimum horizontal curve radius	20 m (at low speed in depot)	
Operation	bidirectional or unidirectional	
Traction motors	4 air-cooled permanent magnet motors (2 per bogie)	
Power supply voltage	750Vdc	
Vehicle-borne energy storage	SuperCapacitor and Battery options	

¹ = number of seats for passengers / total passenger capacity of vehicle
² = sum of widths of doors / total length of passenger zone of vehicle



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