

Aptis

A new mobility experience

Aptis is a new mobility solution designed by Alstom and NTL.

With Aptis, passengers experience the city in a new way, with a full low floor vehicle and 20% more window surface.

This ground-breaking solution provides cities with a modular, 100% electric bus, that can be provided as a complete system with integration, energy supply and service leasing.

HIGHLIGHTS

- Innovative design
- 20m² full low floor
- 20% more window surface
- 4 steerable wheels
- Up to 3 large double doors on either side
- Depot charging at night or opportunistic during operation
- Power system on the roof

GENERAL DESCRIPTION

Aptis was designed from the start to offer cities a clean and high-performance transport solution. Based on Alstom and NTL's expertise in electric traction, rolling stock on tyres and transport systems, Aptis brings the advantages of a tram into a bus to enhance both passenger experience and operation. 95 passengers can travel on this 12-meter long bus. The power system is located on the roof and offers flexibility in terms of energy supply and charging technology. Today, Aptis can be provided either with depot charging at night or with fast opportunistic charging during daily operations.

CUSTOMER BENEFITS

Complete accessibility

Aptis' unique and innovative design offers passengers **a 20m² full low-floor right up to the back of the vehicle for the first time in a bus.** Passengers can therefore benefit from a great on-board fluidity with a wide central aisle.

Up to three large double doors on either side allow for smooth on-and-off passenger flow and a convenient access for wheelchairs and prams.

A premium passenger experience

Aptis is a new way of travelling offering a 360° view and large panoramic windows on both sides and at the end of the vehicle.

Aptis offers 20% more window surface than most other buses for a brighter interior. **A sitting room with a bow window** is available at the back to enjoy the view.

With its modular structure, the interior layout can be modified to meet changing needs. Three different diagrams can be offered to address the needs of each customer.

A new way of moving

With four steerable wheels, Aptis occupies 25% less surface area in curves, a step change in urban mobility.

Aptis needs only **minimal space to pull up, saving up to two parked cars of space at each stop.**

With its parking assistance system, the vehicle **aligns perfectly with the sidewalk**, boosting passenger flow and accessibility.

System integration & life-cycle cost

Aptis can be provided as part of a complete system with integration, energy supply and service leasing.

It was designed to optimise the total cost of ownership through:

- an extended lifetime: the architecture is based on proven tramway components which can perform over 20 years
- reduced operation and maintenance cost: easy access to the batteries and power system on the roof, engine's air cooling system, four tyres.

Overall, **Aptis has a total cost of ownership equivalent to current diesel buses.**

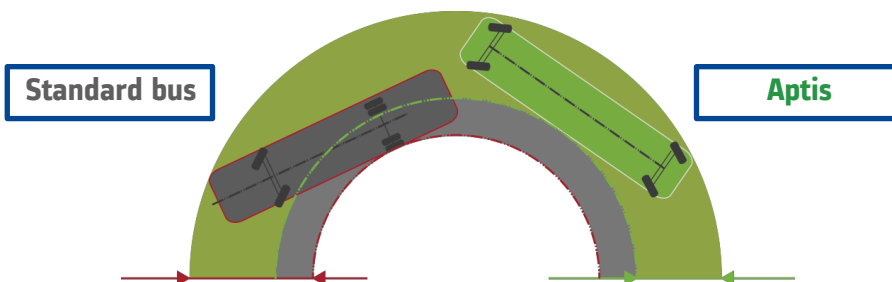


TECHNICAL SPECIFICATIONS

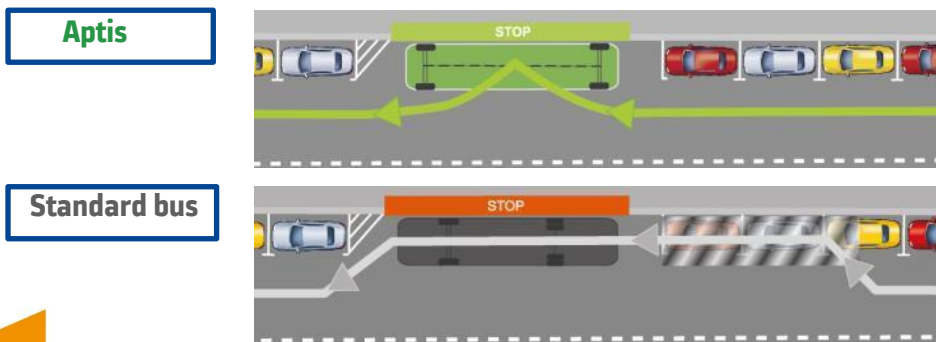
Length	12 m
Height	3,1 m
Width	2,55 m
Floor height	330 mm
Maximum engine power	180 kW
Maximum speed	70 km/h
Maximum acceleration	1,2 m/s ²
Run up slope	13% with maximum load, 20% if empty
Tyres	4 tyres
Number of doors	2 or 3
Passenger capacity	95 with 4 PRM, 2 wheelchair areas
Charging systems	<ul style="list-style-type: none"> • Slow depot charging at night Autonomy up to 200 km • 5 minutes charging during operation at the end of each line either via inverted pantograph or SRS, Alstom's innovative fast ground charging system
Motorisation cooling system	Air cooling motor
Suspension	Hydraulic suspension
Homologation	CEE – UTAC homologation, France



4 steerable wheels



Minimal space to pull up



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