



LOW DECKER

SCANIA INTERLINK

FOR URBAN TRANSPORT OPERATIONS



SCANIA



DESIGNED FOR SUSTAINABLE AND EFFICIENT MOBILITY

Based on more than a century of engineering experience, the new generation of Scania buses has been developed to meet the demands of today's and tomorrow's operators. Energy efficient and available in a wide range of powertrains, it offers the latest technology in everything from safety systems to reduced emission and noise levels. And through excellent uptime, fuel economy and the possibility for high passenger capacity, the new Scania buses allow sustainable mobility to go hand-in-hand with operating economy.

Sustainable efficiency

Having the right vehicle for the operation and using it efficiently is the best way to minimise environmental impact. Scania offers hybrid electric buses and engines running on all commercially viable renewable fuels – biodiesel/FAME, HVO and biogas powertrains, in order to meet the requirements of all urban operations. Through high quality vehicles and innovative technical solutions, maintenance, and a range of driver services, we address fuel efficiency from all angles, helping operators to reduce emissions and fuel costs.

To create a positive passenger experience, Scania buses have the option to have independent front suspension that makes the ride more comfortable and a highly efficient climate system that minimises energy consumption and can handle just about all types of climates.

To help prevent accidents and create a safer city environment, Scania buses have built-in state-of-the-art safety systems and features. These help the driver by increasing his or her awareness of other road users, and even help to control the vehicle when required.

Energy efficiency lowers operating cost

Public transport operators know the importance of keeping operating costs to a minimum, and fuel consumption is one of the main contributors to cost. An energy efficient powertrain can therefore offer significant savings in fuel. Scania develops and offers highly energy efficient powertrains, both traditional and electrified. Compared to previous models, the new generation of Scania buses can potentially save up to 21% in fuel and emissions, without compromising on performance. This is achieved through a number of factors, with the most significant savings coming from improved engine and gearbox efficiency, weight reductions and the addition of a start/stop function. Beyond the powertrain, driving style has a major impact on fuel consumption. The drivability of Scania's vehicles and our driver assistance systems, as well as our driver services, can potentially contribute to further fuel savings of up to 10%.



Ensuring availability through reliable solutions

Reducing vehicle downtime and increasing utilisation is essential to making urban operations cost-efficient. Our buses are built on proven technology and components, resulting in chassis and powertrains that are dependable, durable, and robust. That reliability is the key to minimising time in the workshop and maximising utilisation of the vehicle. Our buses are designed and constructed to make sure that sensitive and expensive components are protected in the event of a collision. Limiting damage and avoiding deformation of components such as the steering and aftertreatment system is critical for minimising costs, as well as complex and time-consuming repairs. Additionally, Scania buses are designed to facilitate maintenance and to make it as efficient as possible. Here, Scania offers professional workshop services with excellent parts availability to secure maximum uptime.

A first-class driver area

A bus operating in urban traffic is constantly exposed to the risk of external damage and the work environment for the driver can be very demanding. A quality driver environment can therefore play a crucial role in reducing the risk of collisions, downtime and sick-leave, while increasing employee retention. The driver area in Scania buses is simply first-class and can even be said to be industry leading. A great turning radius, good visibility, and an overall well-balanced vehicle makes for excellent driveability, while advanced driver assistance systems give the driver good control of the vehicle through improved assisted handling, steering and braking. This increases safety and helps minimise accidents and the associated costs. Due to the demanding work environment, operators also face challenges when it comes to sick leave and employee retention; that's why we've designed the best possible work environment for drivers in terms of ergonomics, reachability, climate control, safety features and an overall quality feel.

Powertrains

The Scania Interlink is available with a wide range of energy efficient and reliable powertrains optimised for suburban and regional traffic.

Hybrid electric (Euro 6)	Output	Torque	Emissions control	Fuel options
9-litre engine Electric motor	320 hp (235 kW) 130 kW	1600 Nm 1030 Nm	SCR	Biodiesel, HVO, diesel
Combustion, Euro 6	Output	Torque	Emissions control	Fuel options
7-litre	280 hp (206 kW) at 1900 r/min	1200 Nm (1050–1600 r/min)	SCR	Biodiesel, HVO, diesel
9-litre	280 hp (206 kW) at 1900 r/min	1400 Nm (1000–1400 r/min)	SCR	HVO, diesel
9-litre	320 hp (235 kW) at 1900 r/min	1600 Nm (1050–1400 r/min)	SCR	Biodiesel, HVO, diesel
9-litre	360 hp (265 kW) at 1900 r/min	1700 Nm (1050–1475 r/min)	SCR	Biodiesel, HVO, diesel
Fuel capacity (usable volumes): 275 litres				
9-litre	280 hp (206 kW) at 1900 r/min	1350 Nm (1000–1400 r/min)	EGR	Biogas, natural gas
9-litre	340 hp (250 kW) at 1900 r/min	1600 Nm (1100–1400 r/min)	EGR	Biogas, natural gas
Fuel capacity: 1260–1875 litres (CBG/CNG) 700 litres (LBG/LNG)				

Gearboxes

6-speed fully automatic gearbox (ZF EcoLife 2)
12-speed manual gearbox with Scania Opticruise and retarder

Axles, doors and lengths

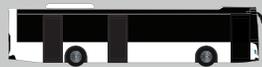
The low decker Scania Interlink is available in several variants, enabling it to meet different operational requirements.

2-axles, 10.9 - 13.3 m



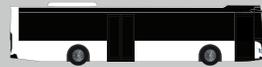
1-1-0

2-axles, 10.9 - 13.3 m



1-1-1

2-axles, 10.9 - 13.3 m



1-2-0

2-axles, 10.9 - 13.3 m



1-2-1

3-axles, 13.7 - 15.0 m



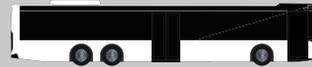
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3-axles, 13.7 - 15.0 m



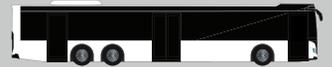
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3-axles, 13.7 - 15.0 m



1-2-0

3-axles, 13.7 - 15.0 m



1-2-1

Floor level

The bus has good accessibility for all passengers, with a floor without steps throughout the aisle. Which can be reached via few steps when boarding. There is also the possibility to fit a wheelchair lift at middle doors.

The higher floor improves passenger comfort, view and option for luggage space.



PRODUCT DESIGN FEATURES

The low decker Scania Interlink meets the needs of operators. With total design and production control over the chassis and powertrain, Scania delivers unrivalled reliability, durability and performance.

Battery packs

The battery packs for hybrids are placed on the roof, creating a well-balanced bus with excellent driveability and ride comfort.

Battery temperature control

Battery pack temperature is controlled by a closed water-cooling system. In very cold or very hot ambient temperatures, the water cooling is assisted by an electric heater or a A/C cooling respectively. The A/C circuit is separated from the climate control system of the bus and will not affect the comfort of the passengers or driver.

Driver area

The driver area has a completely new design with improved ergonomics, visibility, safety, comfort, and the vehicles has excellent drivability.

- Excellent ergonomics and reachability – pedal placement, leg space, driver height settings, all-angle step-less seat adjustments, adjustable instrument panel and flexible switch placement due to CAN-functionality.
- Increased safety – electropneumatic parking brakes.
- Excellent drivability – great turning radius, advanced driver assistance systems, and improved assisted handling, steering and braking.
- Enhanced climate system – improved climate system with better airflow.



Front suspension technology

Without compromising on passenger capacity, the new independent front suspension offers excellent passenger comfort. The new rigid front suspension also increases passenger capacity while offering good passenger.

Electric system

The new power supply architecture comes with improved electronic control units (ECUs) and functions that improve performance and facilitate diagnostics for repair and maintenance. It also enables new functionality within ADAS, e-mobility and autonomous transport systems.

Fuel tanks

For buses with independent or rigid front suspension, new tank option is available, 275 litres (usable volume).



Chassis frame construction

The strengthened front axle means that load capacity is increased from 7.5 to 8.2 tonnes. This allows higher load capacity. It also enables optimised weight distribution between the front and rear axles – especially important for gas vehicles.

Powertrain technology

The highly dependable, durable, and robust powertrains enable fuel savings of up to 21%, achieved through a number of factors such as;

- Longitudinally central mounted engine in rear (-6%)
- Gearbox (-3%)
- Weight (-2%)
- Start/stop function (-6%)

Exterior design

Buses are a natural part of the urban environment, and the new contemporary and sophisticated exterior design signals innovation, quality and forward thinking.

- Characteristic and minimalistic form.
- Low windows, all the way down to the luggage hatches.
- Roof covers for components such as AC units, gas tanks and battery packs.
- New headlight options: bi-halogen, bi-LED or bi-LED premium. The last one with daytime running lights and indicators integrated in the strip below the headlights, making the possibility to have an extra LED high beam. Cornering lights for a increased visibility for the driver when turning.

Interior design

The new interior creates a more attractive passenger environment, boosting the appeal of public transport.

- Interior – light colours on the ceiling and side panels, and the transparent luggage racks add to the airiness.
- Lighting – direct downward and indirect via the ceiling illumination creates a pleasant and spacious environment.
- Natural and sound absorbent materials – generate a bright interior and contributing to a pleasant acoustic environment for both driver and passengers.
- Seats – several options, all with good passenger comfort.
- Cleanability – surfaces for easy cleaning, like minimal gaps between panels and fixings.

Safety features

A range of functions supporting the driver in demanding urban environments.

- Lane keep assistance – supports the driver in keeping the vehicle between the lane markers.
- Blind spot warning – detects other vehicles located in the driver's blind spot area.
- Electropneumatic parking brake – locks the brakes until acceleration is activated, thereby preventing unintentional vehicle motion.
- Vulnerable road user collision warning – detects cyclist and pedestrians close to the vehicle.
- Impact and underrun protection – rigid beams in the front and the rear protect passengers, driver and sensitive components.



General

Wheel configuration: 2-axle, 3-axle with tag axle (steered)

Door configuration:
1-1-0, 1-1-1, 1-2-0, 1-2-1

Dimensions

Length: 10.9 - 15.0 m

Width: 2.55 m

Height:
3.31 m (diesel, biodiesel, LBG/LNG)
3.53 m (hybrid)
3.64 m (CBG/CNG)

Passenger area

Total capacity: up to 71 seated passengers

Seating: Individual passenger seats with 2- or 3-point seatbelts, reading lights, SitSafe or ISOFIX attachment for baby seat, seats on rails.

Equipment: Luggage rack, camera surveillance, interior LED or fluorescent light

Roof hatches: Manual or electric

Driver area

Seating: Heated driver seat ISRI

Instrument panel: Fixed

Support systems: Scania Fleet Management collects, saves and sends information from the vehicle for analysis, Scania Driver Support, electro-pneumatic parking brake, adaptive cruise control (ACC), vulnerable road user collision warning, blind spot warning, hill-hold

Equipment: Map reading light, high partition behind drivers area, alco lock, microphone, ticket machine preparation

Destinations signs

Placement: LED destination sign in front, side and rear

Luggage compartment

Luggage space 3.0 - 7.0 m³

Climate system

Heating and cooling: Convector circuit passenger area, auxiliary heater (diesel, gas for CNG/CBG powertrain), defroster, separate or combined air conditioning for the driver, temperature controlled ventilation and AC for passengers

Powertrain - Hybrid electric

Hybrid - Biodiesel, HVO, diesel
9-litre engine 320 hp (235 kW), torque 1600 Nm
Electric motor 130 kW, torque 1030 Nm
Fuel capacity (usable volumes): 275 litres

Gearbox:
12-speed gearbox with Scania Opticruise

Powertrain - Combustion, Euro 6

Biodiesel, HVO, diesel:
7-litre 280 hp: (206 kW), torque 1200 Nm
9-litre 320 hp (235 kW), torque 1600 Nm
9-litre 360 hp (265 kW), torque 1700 Nm
HVO, diesel:
9-litre 280 hp (206 kW), torque 1400 Nm
Fuel capacity(usable volumes): 275 litres

Biogas, natural gas:
9-litre 280 hp (206 kW), torque 1350 Nm
9-litre 340 hp (250 kW), torque 1600 Nm
Fuel capacity:
1260 - 1875 litres (CBG/CNG)
700 litres (LBG/LNG)

Gearbox:
6-speed fully automatic
12-speed gearbox with Scania Opticruise

Electrical system

Equipment: Bi-LED or halogen headlights, LED daytime running, position and indicator lights, LED side and rear lights, Battery 210 Ah (mild hybrid), 230 Ah or dual battery system, Alternator 150, 2x150, 180, 2x180 A

Brake and safety equipment

Equipment: Disc brakes, electronic brake system (EBS), anti-lock brake system (ABS), lane departure warning (LDW), advanced emergency brake (AEB), traction control (TC), hill hold, bus stop brake, rear view camera, fire extinguishing equipment in the engine compartment, emergency hammers

Suspension and wheels

Front suspension: Independent suspension or rigid axle, kneeling front door, whole front or whole side, total raising and lowering
Tyres: 295/80, 315/80
Rims: Aluminium or steel

Doors and windows

Single or double glazed side windows



SERVICE OFFERING

Our offering consists of a number of services for minimising emissions, increasing safety, and improving operating economy, focusing on areas like fuel efficiency and uptime. These services allow us to provide solutions to each operators' individual challenges and needs.

Scania's data services generates insight and create business value through anything from position and speed to performance and driving style. Scania's data API's comply with the rFSM standards 1.x and 2.x.

Driver services

Enables drivers to drive safer and more efficient, and can reduce the need for maintenance.

Scania Driver Training

Combines theory and practice, covering topics such as safe and efficient driving, especially important when it comes to electrical vehicles, not only to save energy but even regenerate energy by optimal driving. Handles also other aspects of professional driving, always with a focus on profitability, fuel economy and reduced emissions.

Scania Driver Evaluation

An on-board device that assesses the driving style by comparing it to that of drivers operating in similar conditions. The result, which can be used to achieve long term improvements, is visible in the Scania Fleet Management Portal and Scania Fleet App.

Tachograph services

Scania's tachograph portal provides insights and information on driver activities and vehicle usage, thus facilitating regulation compliance related to health and safety for drivers as well as helping operators maximise uptime.

Fleet management services

The data collected on board the buses provides valuable insight into driving styles, productivity and economy. This level of tracking and diagnostics can bring significant benefits in terms of increased uptime, improved safety and reduced operating costs. Through the Scania Fleet Management Portal and the Scania Fleet App, operators can gain access to all that data and reap the benefits.

Scania Zone

A position-based system for real-time vehicle adjustments in pre-defined zones. It allows operators to ensure that each vehicle stays within the set speed limits, increasing city safety and lowering fuel consumption. Scania Zone is an optional add-on in Scania's fleet management system.

Repair and maintenance services

Having access to professional workshops and quality spare parts is key to keeping the vehicles in prime condition. Scania offers a range of repair and maintenance services:

Scania Flexible Maintenance

Uses real-time vehicle data to produce maintenance plans tailored to each vehicle's actual operation, meaning no underserving and no overserving. This is done by continually monitoring and analysing operational data to ensure maximum uptime and schedule maintenance customised to the operations, thus increasing productivity and decreasing disruptions.

Scania Fleet Care

The fleet operator receives a dedicated Fleet Manager from Scania equipped with advanced tools and systems, to optimise maintenance and prevent breakdowns based on operational data and vehicle data analysis.

Customer workshop services

A tailored collaboration service designed to facilitate for the operator by streamlining and quality assuring the workshop and workshop processes to meet Scania standards.

Financial services

Flexible financing and insurance solutions that suit the operational needs, tailored to provide predictable costs and manageable risks – over the entire lifecycle of the vehicles.

Scania Financing

Tailored solutions for financing an expansion or a fleet renewal. Handled with professional knowledge of financial of the transport business and optimised for the local tax and legal environment.

Scania Insurance

Tailored solutions that, together with claims support service and Scania Assistance, will help get the vehicle back on the road quicker, safeguarding uptime – and peace of mind.