



eShuttle

electric shuttle for inner-city and last mile passenger transportation



HIGHLIGHTS

eShuttle

A product developed to embrace the modern-day mobility shift of inner-city and last-mile public transportation.

The eShuttle is a mid-sized, complete low-floor accessible bus designed from the ground up, utilizing the very latest Battery Electric Zero Emission Technology.

Cost-efficient with three different length variant offerings, the eShuttle can cater to the transportation of up to 50 passengers (a combination of seated and standing), including up to two locations for Passengers with Reduced Mobility.

The multiple battery options, combined with fast charging, provide transport operators with a product that can be configured to meet a specific operational use case, thereby enabling a compelling Total Cost of Ownership (TCO).

The eShuttle is homologated for on-road and public transport applications (UN-ECE M3), both in LHD & RHD derivatives.





LEVEL 2+ AUTONOMOUS DRIVING

As the world becomes increasingly crowded and polluted, the imperative for more effective, user- and planet-friendly mobility solutions becomes ever more apparent and urgent.

Deploying autonomous vehicles as novel modes of shared transportation can fundamentally transform the entire public transport ecosystem, enabling multiple win-win outcomes: reduction of car ownership, redefined public mobility experiences, unlocking congested city spaces, and, most importantly, improving safety for all.

Our product, the eShuttle L2+, is, by industry definition, an SAE Level 2 Autonomous Driving Product with Level 4 capable driving technology.

We envision this vehicle as a stepping stone for fleet operators who ultimately target Level 4/5 AD, where self-driving functionality, accompanied by a safety driver, will begin to reshape traditional urban transport operations. This will ease passengers into new mobility paradigms, build trust with the public, and pave the way for enhanced mobility for all.

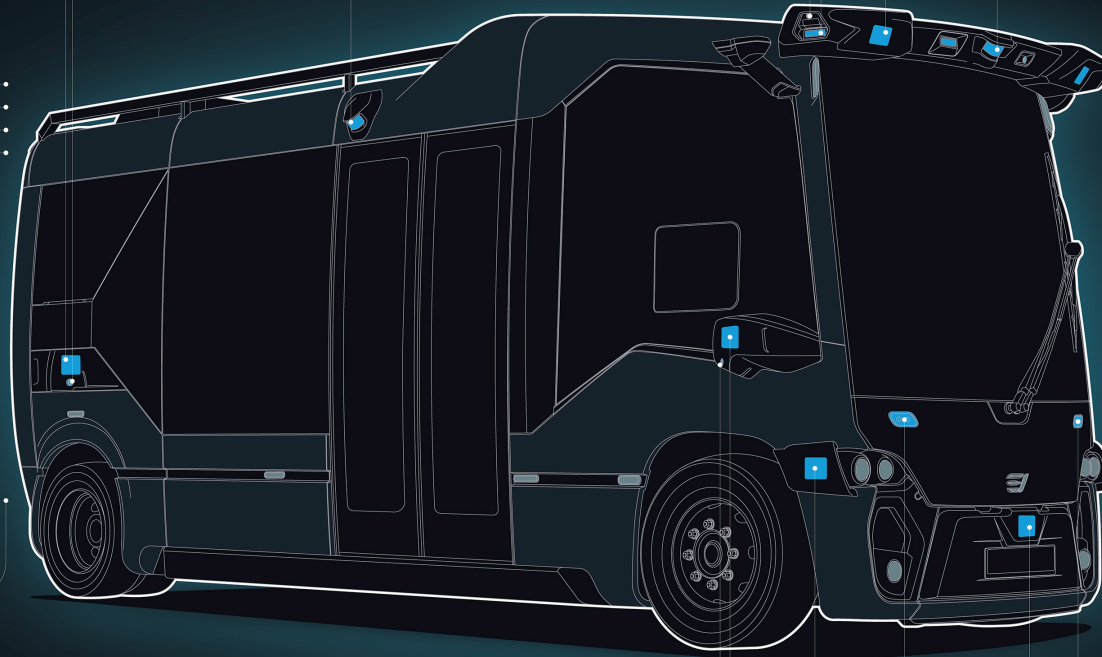


AD.READY

TWO SIDE SHORT RANGE LIDARS
TWO REAR SIDE CAMERAS
TWO REAR SIDE RADARS

THREE CAMERAS
THREE LONG RANGE LIDARS
TWO SENSOR BAR RADARS
SHORT RANGE CENTER LIDAR

REAR SENSOR BAR CAMERA
REAR LONG RANGE LIDAR
TWO REAR SENSOR BAR RADARS
REAR SHORT RANGE CENTER LIDAR
REAR BUMPER CENTER RADAR



TWO LH ACOUSTIC SENSORS
FRONT CENTER BUMPER RADAR
TWO RH ACOUSTIC SENSORS
TWO HEADLIGHT RADARS
TWO FRONT SIDE RADARS
TWO FRONT SIDE CAMERAS

LEVEL 2+ AD

PRODUCT HIGHLIGHTS



Spacious and bright, designed for enhanced UX, inclusion & accessibility

PRODUCT SPECIFICATION

MODEL	UNITS	MK II - 200	MK II - 400	MK II - 600
GENERAL				
Length Width Height	mm	5,400 / 2,300 / 3,150	6,900 / 2,300 / 3,150	8,400 / 2,300 / 3,150
Gross Vehicle Weight	kg	12,000	12,000	12,000
Approach / Ramp Over / Departure Angle	deg.	10.5 / 10 / 16	10.5 / 7 / 16	10.5 / 6 / 16
Turning Radius (kerb-to-kerb / wall-to-wall)	mm	7,300 / 7,700	9,400 / 9,800	11,500 / 12,000
Front Axle Rating / Rear Axle Rating	kg	5,500 / 6,500	5,500 / 6,500	5,500 / 6,500
Front / Rear Wheels & Tyres	-	285/70 R19.5 (S) / 245/70 R19.5 (D)	285/70 R19.5 (S) / 245/70 R19.5 (D)	285/70 R19.5 (S) / 245/70 R19.5 (D)
PASSENGERS				
Passenger capacity / seated passengers	pax	up to 30 / 9	up to 40 / 16	up to 50 / 24
PRM bays	pax	up to 1	up to 1	up to 2
ACCESSIBILITY				
Floor height kneel / nominal	mm	270 / 340	270 / 340	270 / 340
Ground clearance	mm	180	180	180
Passenger door opening width	mm	1,200	1,200	1,200
Ramp length / width	mm	1,000 / 900	1,000 / 900	1,000 / 900
Ramp angle	deg.	15	15	15
THERMAL				
HVAC cooling / heating capacity	kW	24 / 18	24 / 18	24 / 18
Ambient Operating Temperature (up to)	deg. C	-40 to +50	-40 to +50	-40 to +50

PRODUCT SPECIFICATION

MODEL	UNITS	MK II - 200	MK II - 400	MK II - 600
DRIVE-TRAIN				
Motor Power (Const./Peak)	kW	80 / 140	80 / 140	80 / 140
Motor Torque (Const./Peak)	Nm	210 / 520	210 / 520	210 / 520
Reduction gear	i	24:1	24:1	24:1
Max. Torque (Wheels)	Nm	12,500	12,500	12,500
Gradeability	%	25	25	25
Max. Speed	km/h	100	100	100
Max Acceleration	m/s ²	1.0	1.0	1.0
BATTERY				
System High Voltage (nominal)	Vdc	566	566	566
System Low Voltage (nominal)	Vdc	24	24	24
Battery Capacity (nominal)	kWh	84	84 or 126	84, 126 or 168
Battery Capacity (usable 90%)	kWh	76	76 or 113	76, 113 or 151
CHARGING				
DC Charging Power (Max)	kW	150	150	150
AC Charging Power (Max)	kW	22	22	22
HOMOLOGATION				
Certification	-	UN-ECE OR FEDERAL*	UN-ECE OR FEDERAL*	UN-ECE OR FEDERAL*
Category	-	M3 CLASS I, II, A & B	M3 CLASS I, II, A & B	M3 CLASS I, II, A & B
Drive hand	-	LHD OR RHD*	LHD OR RHD*	LHD OR RHD*

*Coming Soon

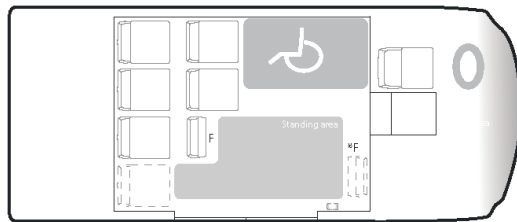
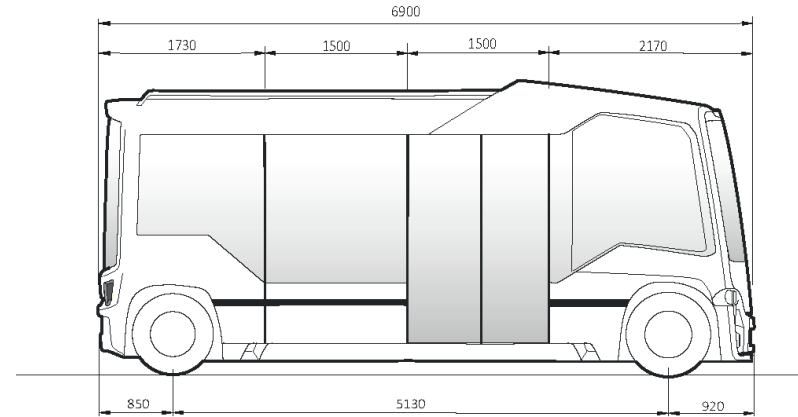
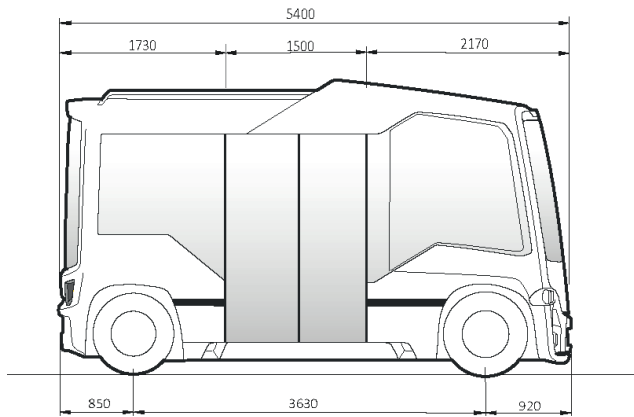
PRODUCT FEATURES

PLATFORM	FEATURE
BRAKE, WHEELS & TYRES	Pneumatic Braking System, Pneumatic Foundation Brakes, Pneumatic Park Brake, Discs & Callipers, Anti-Lock Braking System (ABS), Electronic Stability Control (ESP) & Auto-Hold
STEERING	Front Axle Steering, Hydraulic Power Assisted Steering with supporting Electric Power Assistance for (L2+)
SUSPENSION	Pneumatic Electronic Levelling Control System, Front Independent Air Spring Suspension with Telescopic Damper, Rear Beam Axle Air Spring Suspension with Telescopic Damper, Self Levelling, Raise & Kneel Function
THERMAL	Integrated Thermal Management System for Cooling & Heating of Power Electronics & Battery System
DRIVETRAIN	Integrated Rear Electric Drive Axle with 3 Phase AC Motor, Inverter & Single Speed Gearbox controlled by Master DTC
BATTERY & CHARGING	NMC Pouch Cell Technology, 3 Battery Pack Options, integrated within the Platform Floor Structure controlled by Master BMS, HV to LV DCDC, Charge Controller

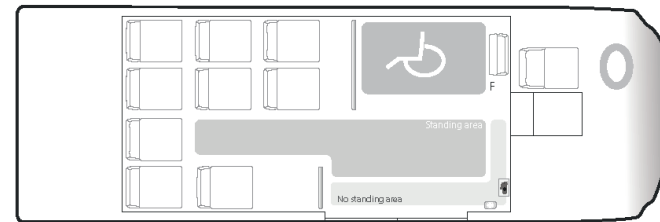
PRODUCT	FEATURE
STRUCTURE	Welded Steel Chassis & Body Structure, Coated & Protected
INTERIOR	Passenger HVAC System, Passenger Seats with dedicated PRM Bay(s) & Wheelchair Backrest, Contrasting Wipe Clean Interior Trim, Anti-Slip Vinyl Floor Covering, Contrasting Hand poles & Entrance Partition, Bell Push & Bus Stopping Sign, LED Focused & Ambient Lighting
EXTERIOR	Pneumatic Electronic Levelling Control System, Front Independent Air Spring Suspension with Telescopic Damper, Rear Beam Axle Air Spring Suspension with Telescopic Damper, Self Levelling, Raise & Kneel Function
DRIVERS WORKPLACE	Driver HVAC System, Adjustable Drivers Seat, Cluster Display & HMI Switches, Adjustable Steering Column with Steering Wheel & Stalks, Drivers Blind & Sliding Windows, Mirrors, Storage Box & LED Reading Light



PRODUCT LAYOUTS

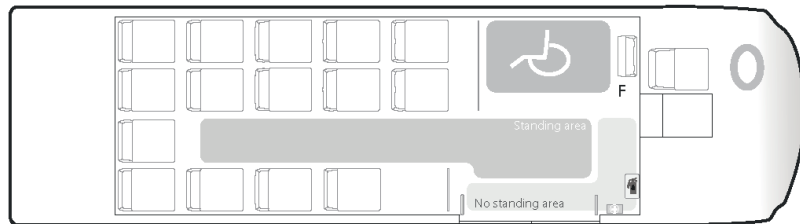
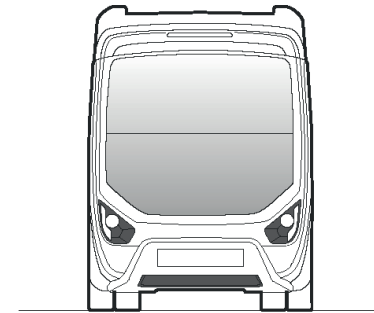
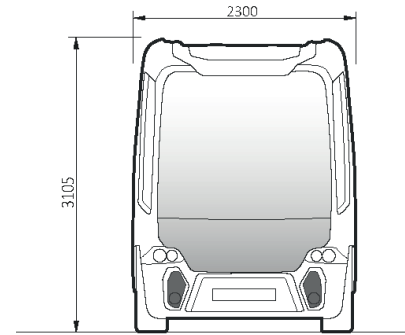
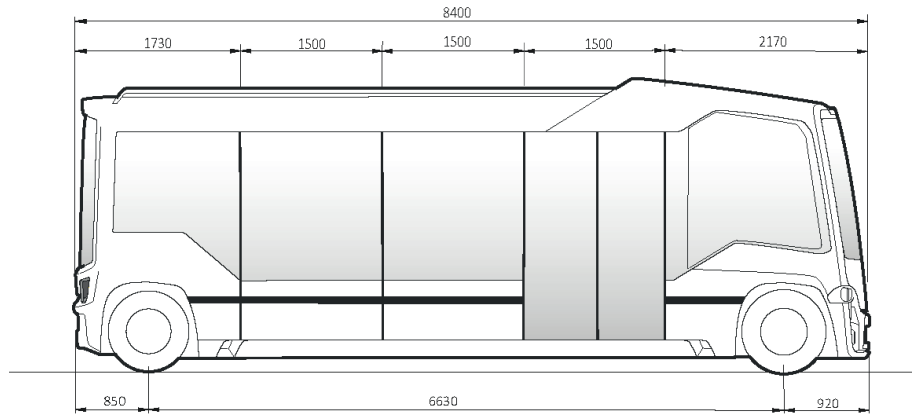


Sample layout, eShuttle MK II - 200 (5.4 m length)



Sample layout, eShuttle MK II - 400 (6.9 m length)




PRODUCT LAYOUTS



Sample layout, MK II - 600 (8.4 m length)



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