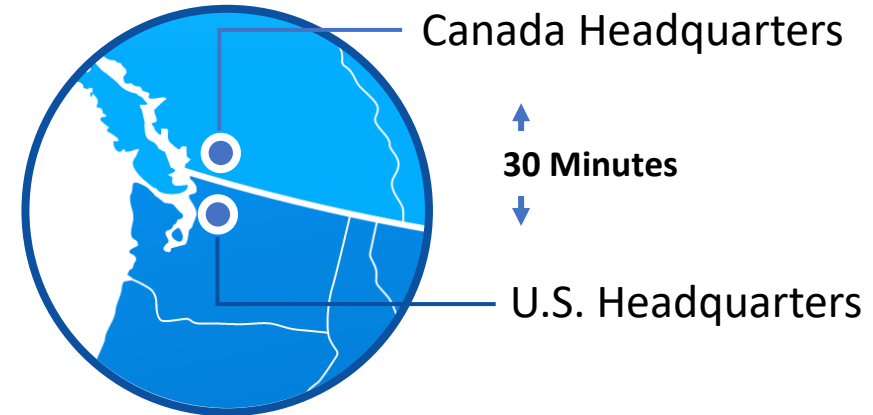




U.S. Assembly Facility

Washington State Assembly Plant

- U.S. Headquarters in cost-effective location
- Assembles buses for Buy America compliant orders, supplementing contract manufacturer capabilities



Production

- Buy America compliant
- Domestic production up to 1,000 units per year



Capacity

- Contract manufacturing partners capable of producing additional 2,000 units per year



Supply

- Buy America Vicinity buses are built using 70% U.S. sourced parts



Control

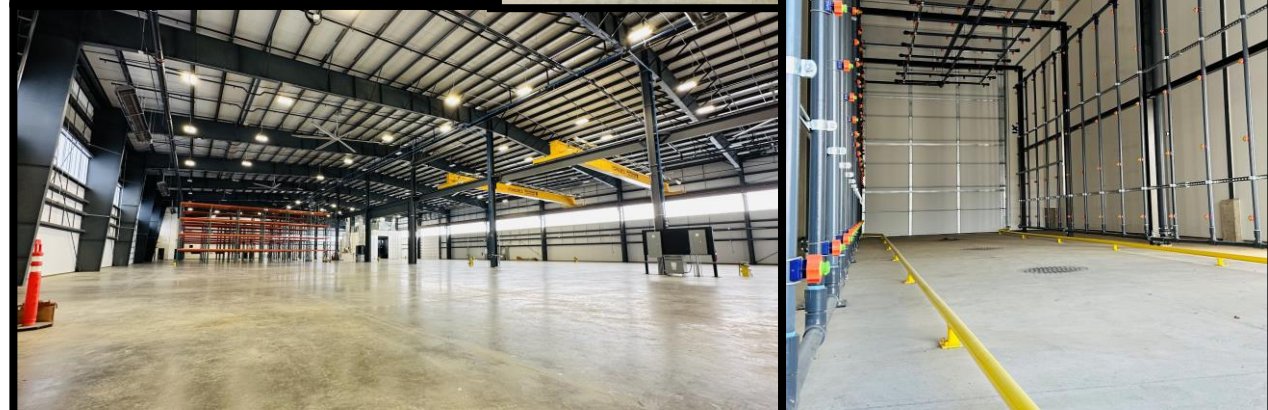
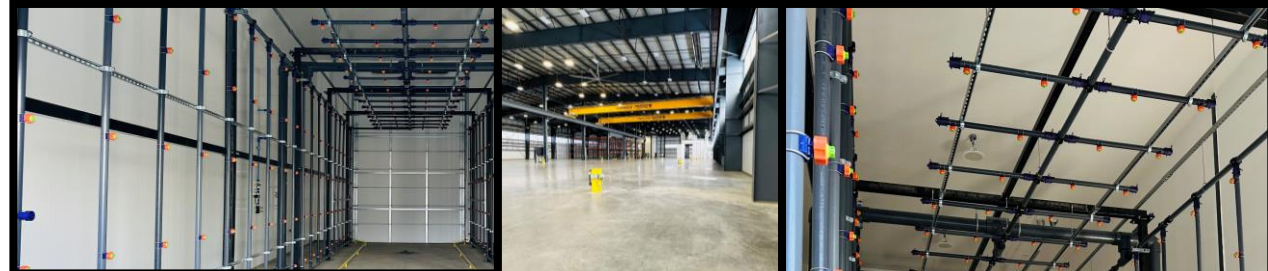
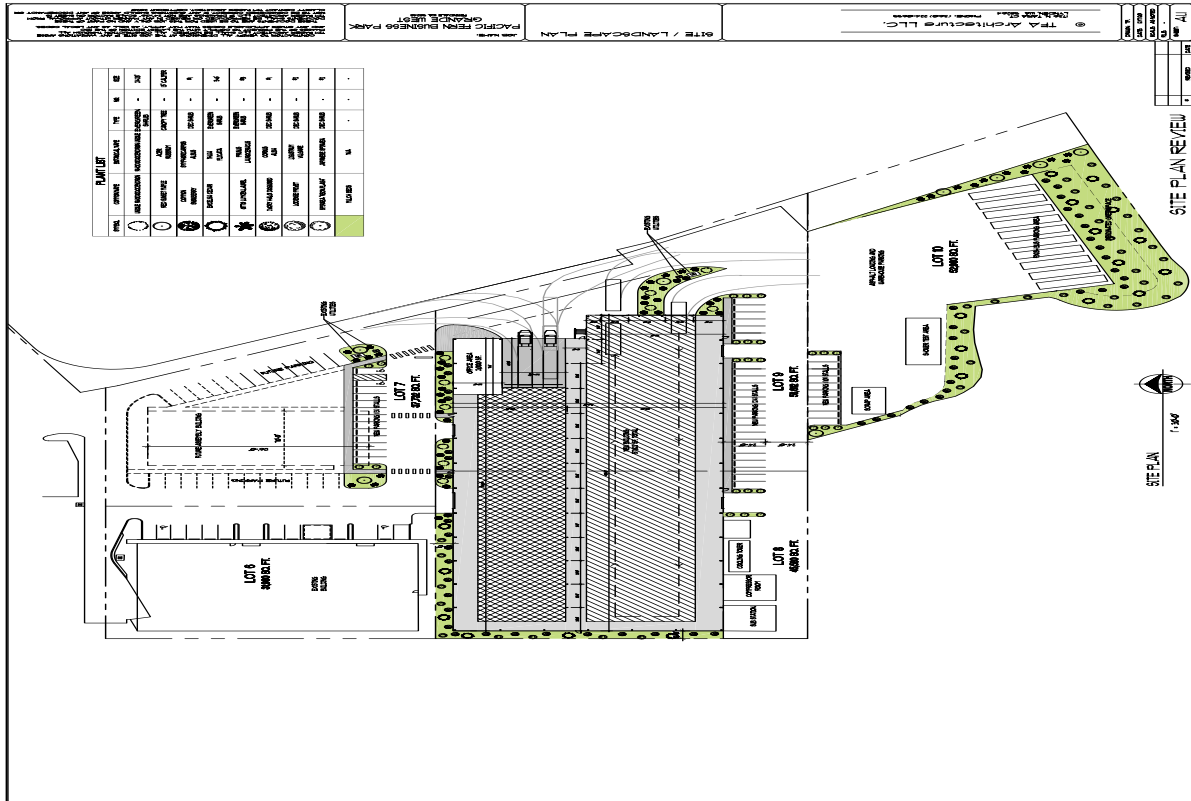
- All intellectual property controlled by Vicinity Motor, Siemens and AutoCAD
- Product lifecycle management

Production Plant

Ferndale, Washington



1,000 Units/Year

SOP 3rd Quarter 2023



Electric Vehicles – Buses & Shuttles



Addressing the Needs of a More Sustainable Future

	Medium Duty	Heavy Duty
Model		
Addressable Market	<p>Vicinity Lightning 28' Electric</p> <p>~8k+ units</p>	<p>Vicinity Bolt Electric</p>
Applications	Commercial, airlines, transit	ETA 2024
Key Advantages	<ul style="list-style-type: none"> • EV offering with greater convenience vs. mid-sized cutaway alternative • Benefit from significant expected EV sector growth • Recent winner of competitive RFP 5-year contract with Calgary Transit 	<ul style="list-style-type: none"> • Vast EV opportunity with EV buses projected to account for ~80% of bus sales by 2035⁽¹⁾

(1) BloombergNEF, Automotive World.

Electric Vehicles – Class 3-5 Trucks

Addressing the Needs of a More Sustainable Future


	<i>Class 3 – Medium Duty</i>	<i>Class 5 Medium Duty</i>
Model	 <p>VMC 1200 Electric</p>	 <p>VMC Class 5 Electric</p>
Addressable Market	~430k+ units	
Applications	Municipal, Urban, Commercial Freight, Last Mile	
Key Advantages	<ul style="list-style-type: none"> • Popular cab over design, Very Maneuverable • Ideal for customers traveling less than 150 miles per day • On board electrical power eliminates the need of small generators 	<ul style="list-style-type: none"> • VMC Powertrain Solution Scale • Heavy Class 5 Configuration • Excellent Weight Distribution and Cargo Capacity

(1) BloombergNEF, Automotive World.

ICE Vehicles

Meeting the Realities of the Present

Many contracts were for 5 years. VMC delivering on back log, while customers transitioning to EV orders

	Heavy Duty
Model	 <p>Vicinity Classic 32' / 35' / 38' Clean Diesel & CNG</p>
Addressable Market	~1.5K units
Applications	Community transit and commercial
Addressable Market	100,000 obsolete inefficient, high energy consumption HD transit buses
Key Advantages	<ul style="list-style-type: none">• Lower upfront and operating cost vs. full size bus while maintaining same durability• Able to maneuver in narrow downtown streets and residential neighborhoods• Reduced Fuel Consumption, Reduced Emissions, Reduced Infrastructure Burden• Excellent ROI and Lifecycle costing

The Vicinity Lightning EV

Purpose-Built, All-Electric Bus to Accelerate Transition to Sustainable Public Transit System

Deliveries Beginning in 2H 2023;



Integrated Battery Packs, Modules & Components

- Customized, premium class, highest standards automotive solutions
- Safe, reliable, certified and cost-competitive

Supply Agreements



Proven Automotive Technology

Purpose Built EV
Easy to Use
Charges like a Car
Fits in any Garage

Batteries in Floor
Zero Emission
Maximum Versatility
Industry Standard Charging

Danfoss EDITRON Powertrain



- Proven automotive industry standard
- In use globally
- Electrical validation

Tested for Transit in North America

Altoona Test Results for 30' Heavy Duty Vicinity

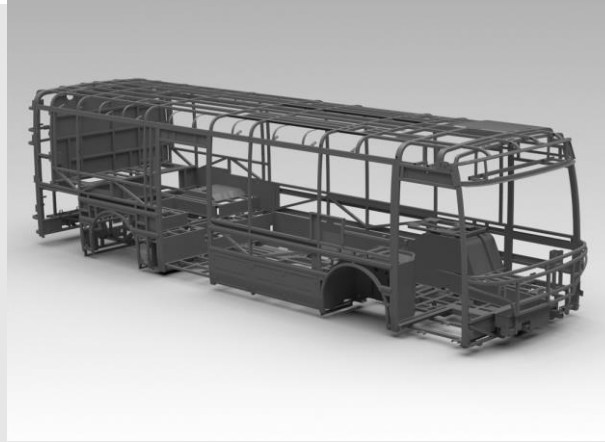
The US Federal Transit Authority's (FTA) Altoona test is an internationally recognized, rigorous testing regime which entails 12 years and 500,000 miles of heavy-duty testing.



Best in Class

Fuel Economy

The objective of this test is to provide comparable fuel consumption data on transit buses produced by different manufacturers. The test is comprised of Business District, Arterial and Commuter phases.



Best in Class

Structural Durability

The primary part of the test program is the Structural Durability Test, which also provides the information for the Maintainability and Reliability results. The test bus encountered no Class 1, 2 or 4 failures. All seven reported failures were Class 3, the lowest among buses in its class.



Best in Class

Maintenance & Repairs

The objective of this test is to collect maintenance data about the servicing, preventive maintenance, and repair. All significant breakdowns, repairs, man-hours to repair, and hours out of service were recorded.

Design Overview

Why Vicinity?

Affordable

- Designed to utilize commercially available components and charging systems.
- Creates an affordable and reliable electric bus.
- Lower entry and running costs enable transit operators to adopt EV technologies sooner.



Right Sized

- Medium duty bus with conventional bus look and durability.
- Short turning radius and compact size allows great maneuverability in any community.
- Cutting-edge monocoque frame technology in an efficient package, fitting into the smallest transit garages.



Versatile

- Scaled down for a diverse range of uses including community shuttle, paratransit, universities and other applications.
- Particularly well suited for smaller communities , or medium to low-ridership routes.
- Charge anywhere - easy 400 Volt architecture.



SMART FEATURES

Charging



- “Charge Anywhere” with easy 400 Volt architecture
- CCS1 AC/DC charge Port

Passenger Comfort



- Air ride suspension
- Optional second door for easy loading/unloading

Driver



- Dedicated driver AC and heating
- Large view windshield



Powertrain



- 295 hp motor - best in class Gradeability
- Hydraulic brakes and 19.5” wheels provide easy maintenance

Batteries



- Mounted in the floor for improved handling and weight distribution
- Expandable up to 252 kWh

ADA Accessible

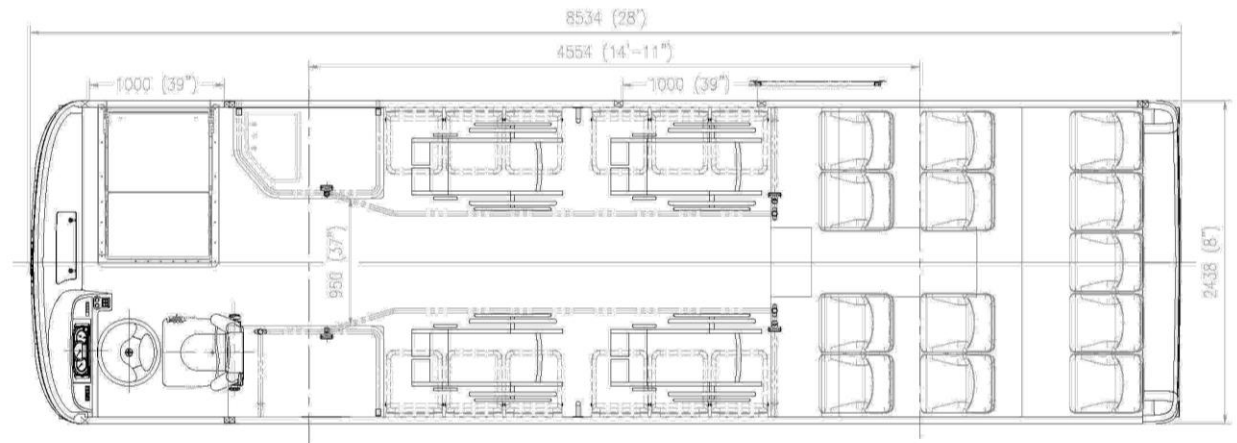
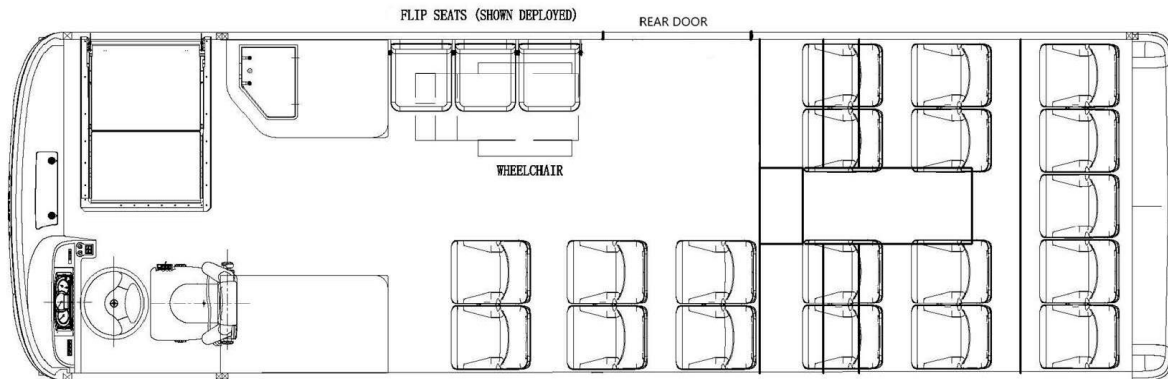
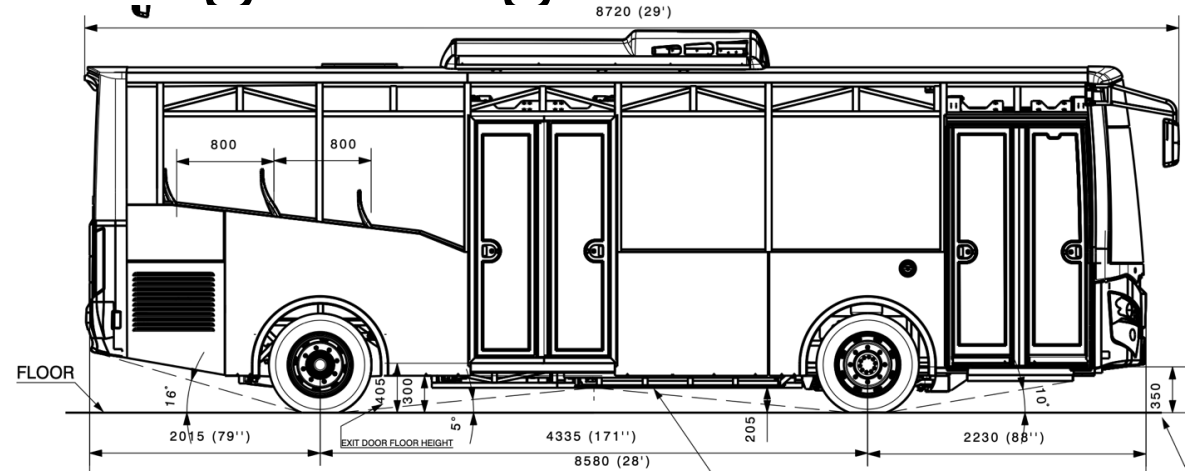


- 6:1 Ramp and wide entrance way
- True “Low-Floor” design with kneeling

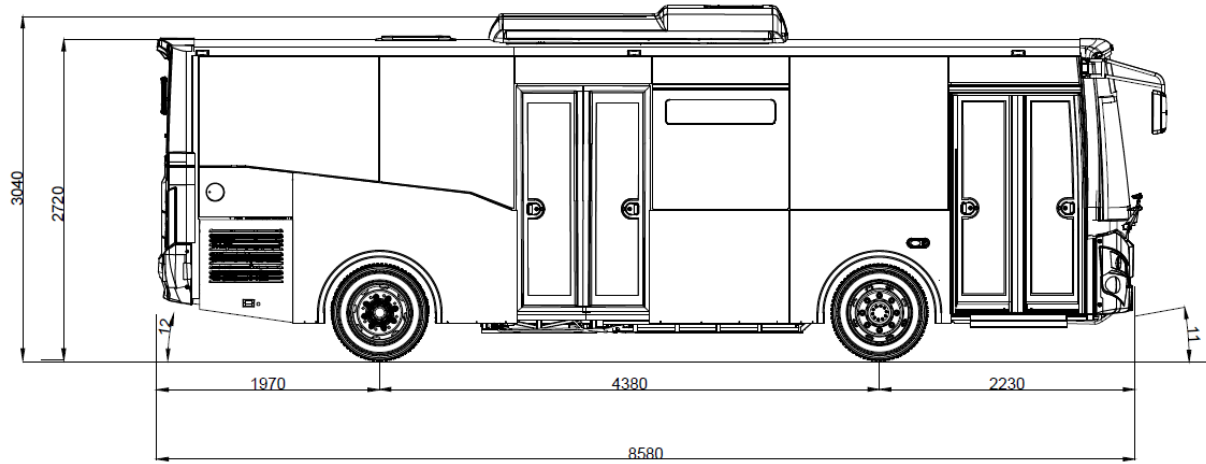
Capacities and Floorplans - Lightning

Seated Passengers
 Standees
 Mobility Aid
 GVWR (lbs.)
 Curb Weight (lbs.)

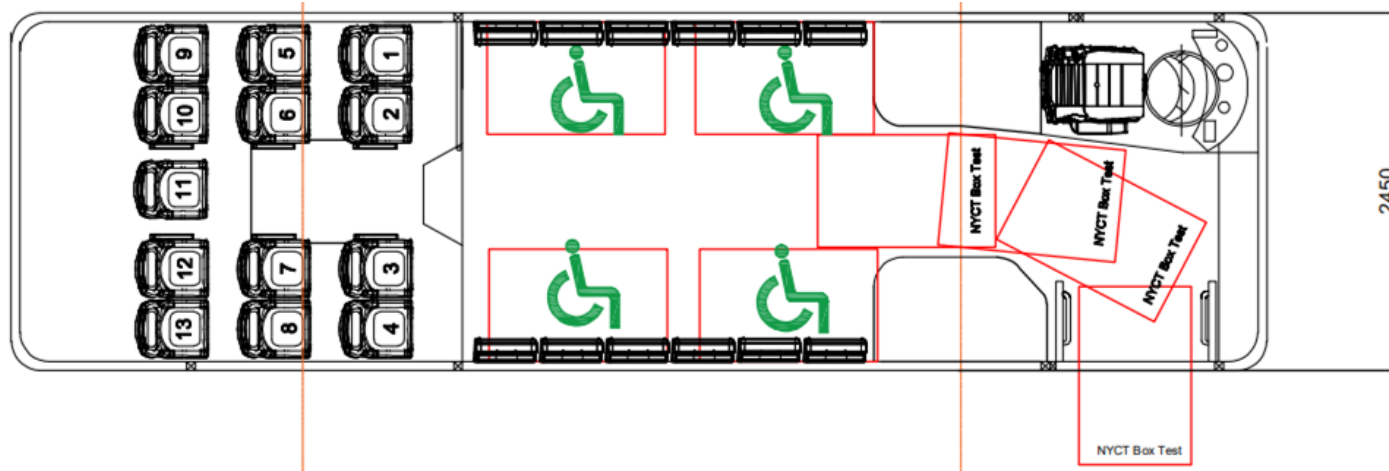
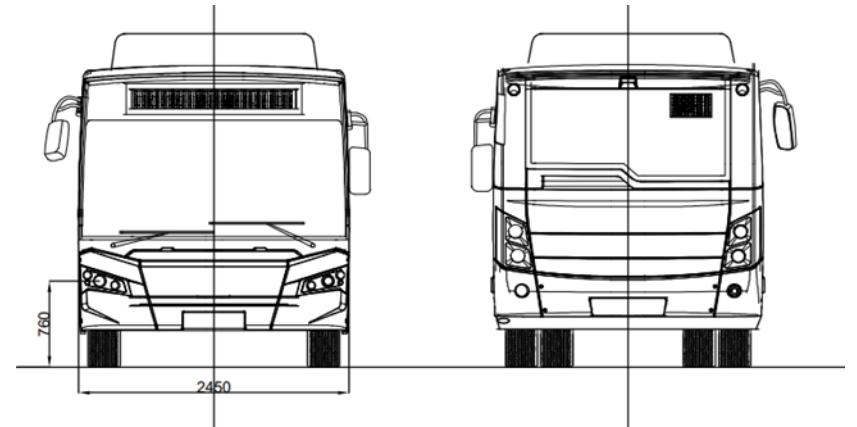
	Single Door	Two Door
Seated Passengers	25	22
Standees	7	10
Mobility Aid	Up to 4	Up to 3
GVWR (lbs.)	24,000	24,000
Curb Weight (lbs.)	16,500	16,500



Driver and Passenger Comfort



LENGTH = 28 ft.



Highlights

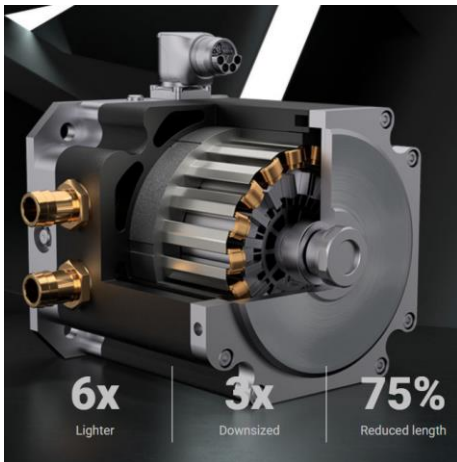
- Up to 34 passengers
- Up to 4 mobility aid positions
- Available in 1 door and 2 door models (electric doors)
- Fully ADA compliant bus with 6:1 entrance ramp
- Air suspension with kneeling

POWERTRAIN

Reliable Components = Reliable Bus

Danfoss Hybrid Synchronous Motor

- 220Kw (295 hp)
- 1491 Nm (1100 ft-lbs) torque
- OEM proven industry leader in motor/invertor design
- 2 speed transmission (Eaton Electric Shift) provides efficiency over a wide speed range

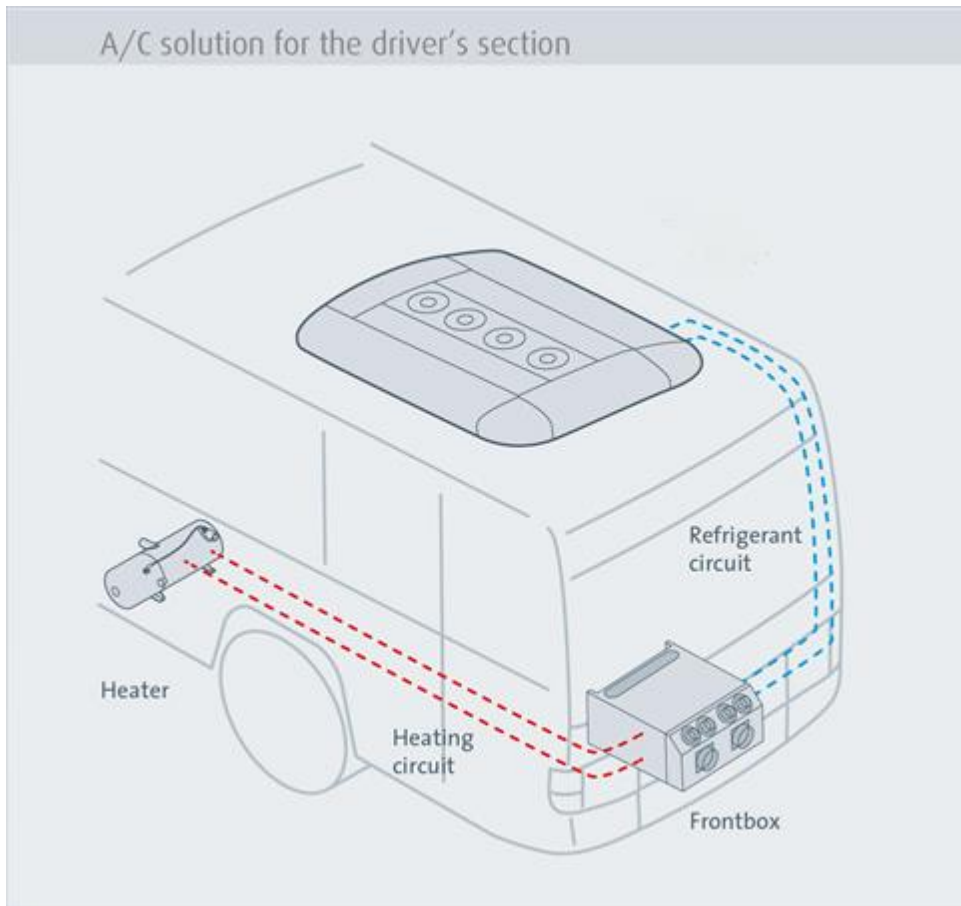


Dual HV Hydrostatic Pumps

- Very efficient High Voltage Design
- Millisecond variable response, High Volume/High Pressure configuration for Maximum performance and reduced energy consumption

Driver and Passenger Comfort

Heat Pump with “Dual Zone Control”



Electric AC/Heat Pump & Front-Box

- “Dual zone temperature control” optimizes cabin temperature to increase range.
- All electric roof top unit with heat pump.
- Driver controller front box provides driver-controlled heating *and* cooling.
- Optional Pro-Heat X30 heater for range extension



Optional Pro-Heat X30 with electronic smokeless combustion control.



“Front-Box” with driver air conditioning.

Driver and Passenger Comfort

Ergonomic Dash and “Hygienic” Shield

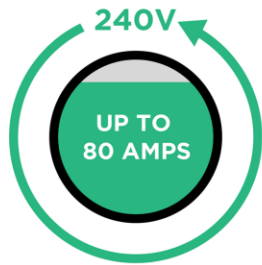


Ergonomic Driver Workstation

- Standard driver door with “hygienic” shield
- Driver touch screen combined with easy-to-read analog dials (Parker Dash)
- Tilt and telescoping steering wheel
- Separated “Dual Zone” driver-controlled heat and AC.
- Optional farebox cut-out to allow for conventional transit ticket systems

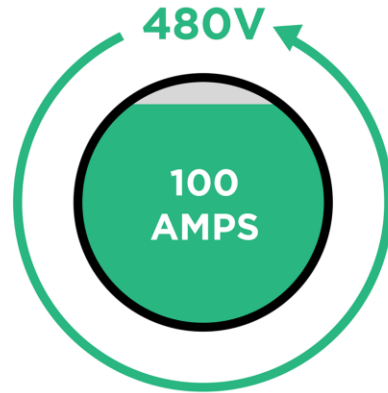
CHARGING

Level 2



Level 2 chargers use 240V electrical circuits. 240V circuits are also used by electric dryers & electric stovetops.

Level 3



Level 3 direct current fast chargers use ultra high-power 480V circuits at public charging stations.

Charging Options = Easy

- “Charge Anywhere” with easy 400 Volt architecture
- On Board 22 kW AC charging
- 120 kW DC fast charging
- Industry standard CCS1 combo charger connection

How fast can I charge?

Level 2
240 V



5.5 hours

Level 3
480 V



1.5 hours



> Vicinity Lightning Advantages – Flexible Charging Options

AC Charging (Standard)

- 13.2 kW On Board Charger (OBC)
- J1772 Type 1 Charge Inlet
- AC Level 1 Charging (120V)
- AC Level 2 Charging (240V)
- Full charge <8 hours

EVSE

- Partner for Level 2
- Charges 2 buses simultaneously
- Wall mount or free standing



DC Fast Charging (Optional)

- No On-Board Charger
- CCS Type 1 Charge Inlet
- DC Level 2 (Up to 870V)
- 60 kW
- Full charge <2 hours

EVSE

- J1772 DC-FC
- Compatible with EVSE
- Up to 4 dispensers
- Wall or pedestal mount
- Bi-directional V2G capability



What? Why? and How? of Telematic Systems

What is a telematics system?

- Telematics is the vehicle onboard communication services and applications that communicate with one another via GPS receivers and other telematics devices.

Why is a telematics system needed?

- Telematics captures important information about operations, bus driver behavior, safety, and vehicle health.
- improve efficiency, safety, and customer satisfaction

How can telematics impact bus fleets?

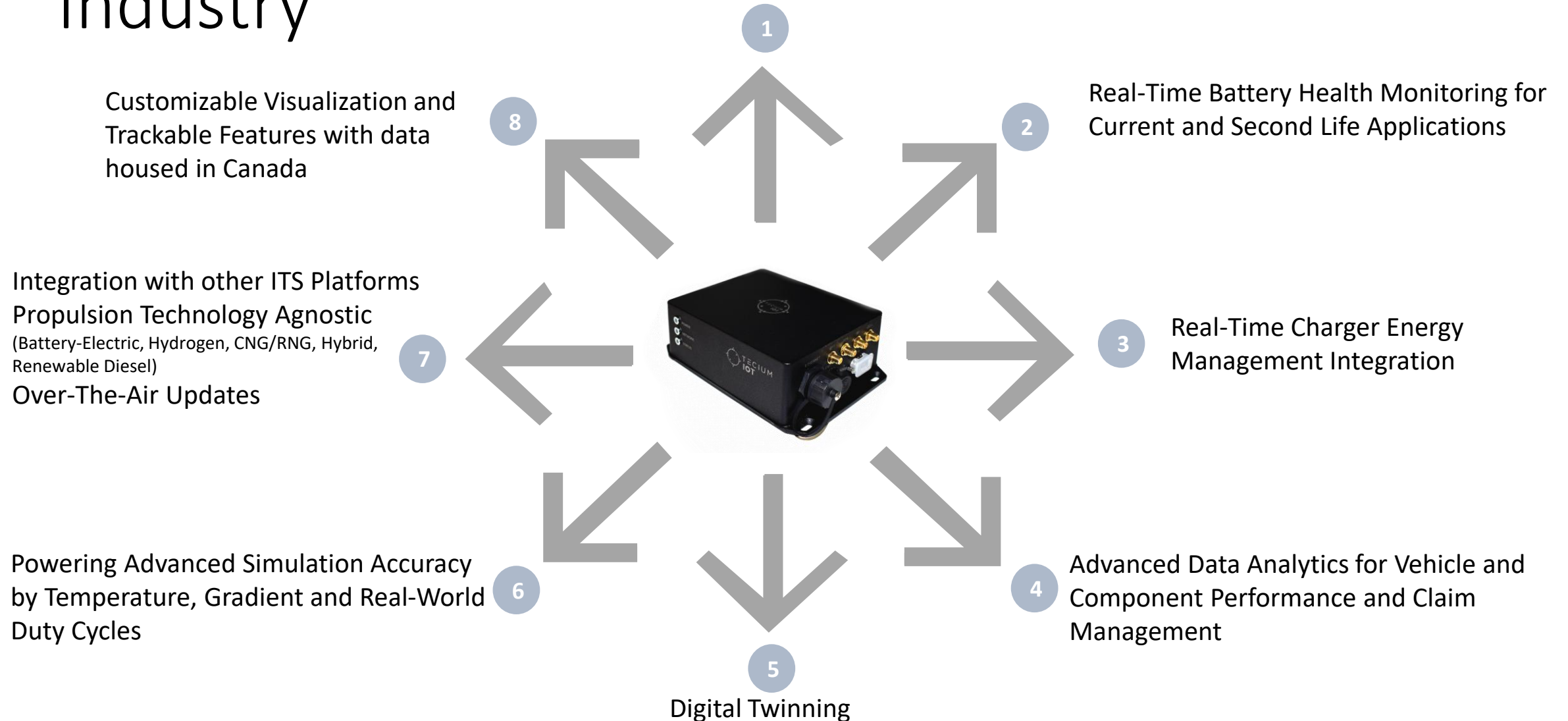
- Telematics systems are a great way for bus companies to create, better more efficient routes
- Elevate safety with uninterrupted, constant and immediate communication
- Save fuel and improve their bottom line.

The “Black Box” for Buses

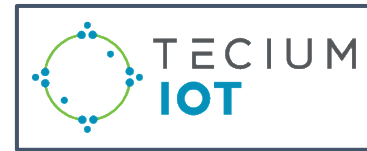


End-to-End Solution Designed for Our Industry

Real-Time Vehicle Telematics



Telematics Partner for OEMs



- Supports **ANY** vehicle
- Real-time **SECURE** data collection
- Supports **custom non-OEM sensors**
- Compression + Encryption
- Event based triggers
- High-speed **full waveform acquisition** on sub-systems (Big Data ready)

- Powerful **customizable analytics**
- **Insights** on sub-system operation
- Trusted **long-term custodian of data** for all vehicles
- Advanced EV analytics - **custom KPIs and reports**
- Powerful '**root cause**' analysis of EV systems
- Advanced user management and **cybersecurity**
- Platform is tuned based on dataset from **diverse EV fleets**
- **Unique insights** on battery degradation
- Simulation and **digital-twin** support
- Verification of **warranty issues**

Driving Session Overview

Session Start Time
2021-01-05, 3:13:24 PM

Session Duration
4.000 h

Session Distance
96.70 km

Effective Vehicle Range
197.35 km

Economy
1.75 kWh/km

Economy (while Driving)
1.51 kWh/km

GHG Emissions
111.64 kg CO2

Energy Cost
\$16.29

User-Driven Solution Designed for Our Industry

Cloud-based telematics for buses, transit, and heavy-duty vehicles with advanced energy management intelligence – that is fully customizable for all propulsion types

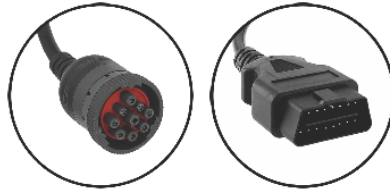


Powerful, Inside and Out
The rugged enclosure houses a dual-core, 800 MHz processor. Compatible with 12V and 24V systems with on-board automotive-grade power management

145.2 x 121.2 x 52.3 mm

Connectivity

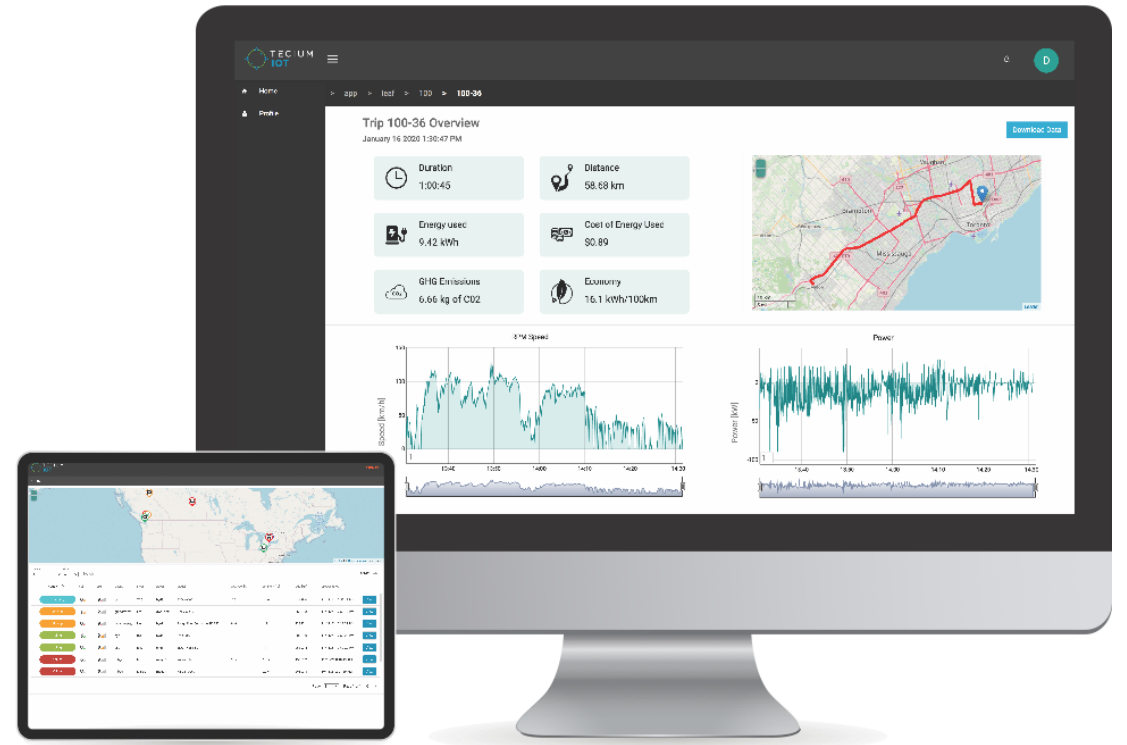
Wi-Fi and 4G Cellular connections transfer vehicle and GPS location data to cloud. RF wireless capability allows for seamless communication with external sensors



J1939 and OBD-II Compatible
Monitor and store vehicle diagnostics through the industry standard CAN protocol

Intuitive User Interface

Easy to use interface shows a live and historical view of the vehicle stats both individually and as a fleet



Proudly made in Canada 

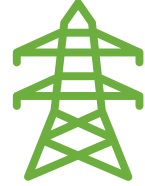
We can white-label devices with another organization's name, customize features, UI/UX interfaces and device colour for branding purposes

A Solution for Our Industry



Vehicle Manufacturers

Dealers may offer IoT device on vehicles as a value-add to owners



Utilities

Charging as a service / fuelling as a service introduces range/demand risk to utility business models. IoT device offers real time data



Vehicle Owners

Vehicle owners/operators require real-time data to make TCO, operational and asset management decisions



Component Manufacturers (on-board vs. off-board)

Major component manufacturers / suppliers include IoT device in specifications



Lenders

Financing for hydrogen and electric heavy-duty vehicles tied to value of propulsion systems. IoT device offers monitoring of asset and borrower behaviour



Granting Agencies

Evaluation of pilot success and subsequent payments can be tied to data generated from IoT device



Battery Suppliers

Battery twinning and secondary market based on IoT data reduces warranty risk for battery suppliers



Advisors

Using advanced IoT and API to enhance simulation accuracy and robustness of ZEB databases

Contact

Sales and Marketing

Marshall Lucier
Vicinity Motor Corp.
Director of Sales, NA
(518) 225-1100
marshall.lucier@vicinitymotor.com



Vicinity Motor Corp
3168 262nd Street
Aldergrove, BC V4W 2Z6
Canada

www.vicinitymotor.com

