



ROAM Ultra-Lite Transit PRT Technical Data 5-29-15

Data Category

MicroWay™

General Operation

Operating Mode	Single PRT cars Automatically dispatched Fully automated control
Signaling	In car/digital
Signal Communications	Digital/rf, inside rails
Maximum Speed	65-mph

SuperWay™

Type	Elevated, open-center Enclosed wheelway tubes Enclosed wheels Enclosed power bus bars Open-mesh center walkway
Material	Stainless-steel
Class	Factory-built (On-site assembly)
Size	78-inches wide 37-inches high
Minimum turn radius (Radius must be greater as speed increases.)	30-feet a low speed
Typical pier location	Street center or park lane Street center or walk edge

SuperWay Switches

Class	Passive (no moving parts) (Car-based switching)
Operate time	Not applicable (zero)

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Support Piers

Pier type	Outside reinforced concrete (On-site construction) 24-inch diameter (larger diam. for high wind or earthquake areas) Min. height - 72-inches (higher for high wind areas)
Support Spacing	50-feet (25-feet in turns)

Support Columns

Type	Welded tubular
Material	Stainless-steel

Propulsion (electric)

Motor type	Brushless Permanent magnet
Motor location	Inside wheels (Wheel motors)
Propulsion	Individual car

Braking

Type	Motor & friction (regenerative)
Friction brake actuation	Electric (battery back-up)

Electical Power – (Generated at point of use from natural gas)

Power type	300-vdc to cars)
Power distribution	Inside wheelways
Power feed to cars	Electrified bus bars Power shoes on cars Individual car feeds
Electrified bus bars location	Inside wheelways



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Cars

Wheel type	Motor-wheels
Traction	Rubber tires
Tire types	High-pressure/flat free
Suspension	Air cushion
Structure & exterior	Aluminum skin Welded aluminum frame & floor
Capacity (passengers/car)	4 seated passengers
Seat Type	Four individual seats (All fold up)
Number of seats & arrangement	Two - Face to face (facing center aisle)
Fast entry features	Step-in-and-sit
Fast exit features	Stand-and-step-out
Wheelchair capacity	One/car
Car floors	Platform level
Doors/side/car	One
Door width	42-inches
Door style	Center Split
Emergency doors/car	One at each end
Emergency door type	Fold-down (ramp to mesh walkway)
Emerg. door width	36-inches
Maximum gross weight	3,000-pounds
Empty weight	2,000-pounds
Length (body) (also automated car length)	10-feet



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Width (cabin exterior)	76-inches
Height (body)	72-inches (stand-up)
Car Operation	
Max. acceleration rate	0.125g
Standard braking rate	0.125g
Maximum braking rate	0.33g
Stopping distance @ 0.33g braking	
30-mph speed	90-feet
65-mph speed	420-feet
Maximum full-speed grade	10%
Typical unload/load time	22-seconds
Minimum spacing	50-ft intervals
Emergency Escape	
Rescue category	Unaided - passenger initiated
Car provisions - seats	Fold-up seats (for center walkway)
Escape doors	Fold-down end doors/ramps (ramps to center walkway)
Guideway	Center mesh walkway (Between side wheelways)
Stations	
Location	Elevated over street
Construction	Factory-built
Exterior Material	Stainless-steel/glass
Access from street	Enclosed stairs & elevators
HVAC	Heated and cooled



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*MicroWay*TM

Car Storage

Storage location

Elevated storage *SuperWays*

Maintenance Facilities

Routine maintenance

Special *SuperWay* section

Major maintenance

Off-*SuperWay* building
(Car lift on *SuperWay*)
(Cars trucked to site)