



ROAM Ultra-Lite Transit (ULT) Technical Data 5-29-15

Data Category

MicroWay[™]

General Operation

Initial Operating Mode	Coupled train In-train operator Manual operator control
Final Operating Mode	Coupled train or separate cars Automated control (No in-train operators)
Signaling	In cab/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
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	Reinforced concrete (On-site construction) 24-inch diameter (larger diam. for high wind or earthquake areas) Min. height - 48-inches Min. height - 48-inches (higher for high wind areas)
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Support Spacing	50-feet (25-feet in turns)
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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 using 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	Stainless steel skin Welded aluminum frame & floor
Capacity (passengers/car)	6 - standard 11 - crush conditions (6 seated - 5 standing)
Lead tram car capacity (pass./car)	6 - standard 11 - crush conditions (6 seated - 5 standing)
Seat Type	Three-person bench (both halves 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



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Maximum gross weight	4,000-pounds
Empty weight	2,200-pounds
Length (body) (also automated car length)	10-feet
Length (with train couplings)	12-feet
Width (cabin exterior)	76-inches
Height (body)	90-inches (stand-up)
Train Consist & Passengers	
Cars/train (<i>200-ft platforms</i>)	Up to 16
Train capacity (<i>200-ft plat.</i>)	Up to 176 passengers
Cars/train (<i>300-ft platforms</i>)	Up to 25
Train capacity (<i>300-ft plat.</i>)	Up to 275 passengers
Train Operation	
Max. acceleration rate	0.12g
Standard braking rate	0.12g
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%
Station dwell time	22-seconds
Minimum interval	42-seconds (44-sec for 300-ft platform)
(Includes dwell time) (Automated trains) – Interval is 70-seconds for manual operation	
Trains per hour	81 to 85 (automated) (less for 300-ft platform)
(55 trains per hour for manual operation)	



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Passenger Capacity (maximum - crush load)

Passengers/hr/direction (pphpd) (automated trains) (Capacities are one-half for manual)

(200-ft. platforms) 14,256

(300-ft. platforms) 23,375

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 Escalators & elevators

Train 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)