Rail Communications

Wireless connectivity

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Connecting – today and beyond

Light rail antennas

SENCITY TRAM antennas are developed to provide an all-in-one wireless solution for trams, metros and other vehicles requiring railway certifications such as EN50155, EN45545 and NFPA-130. They are multi-application antennas for cellular, Wi-Fi, Tetra, UHF and GNSS.

SENCITY Tram MIMO

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SENCITY Tram MIMO antennas offer support for 2×2 MIMO systems by use of several radiating elements within one common housing or support 4×4 MIMO systems by installing multiple antennas apart from each other for an optimised performance.

SENCITY Rail in-carriage antenna portfolio

HUBER+SUHNER offers a comprehensive portfolio of antennas for installation inside trains, covering all Wi-Fi bands, as well as cellular services.

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SENCITY Tram

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The SENCITY Tram portfolio offers different combinations of radiating elements efficiently designed to fit into a single compact housing.

SENCITY Tram MULTI

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The SENCITY Tram MULTI is designed for 4×4 MIMO operation in cellular, 8×8 MIMO in Wi-Fi networks. It also offers a variety of combinations of up to 9 radiators within one housing and comes with an GNSS option for L1, L2, L5 operation.

SENCITY Tram

Product name	**SENCITY Tram with cellular, Wi-Fi, L1 GNSS and Stick-option**
Product ID.	**1399.99.0201**
Description	Rugged vehicle rooftop multi-band antenna for Light Rail. Meets specific requirements of light rail market. Can be used as the wireless interface for multi-band communication on light rail trains and trams.
	· Supports 2G/3G/4G/5G cellular and Wi-Fi 2.4/5 GHz, Wi-Fi 6E bands and GNSS. · Stick antenna option for Tetra, VHF, etc · Embedded GNSS antenna with integrated low-noise amplifier · 3 elements in one housing plus one stick antenna option and single hole mounting. · Meets EN50155 and fire retardant according to EN45545 and NFPA-130. · Works without a metal ground plane.
Item no.	85174992

Technical Data	**Band 1**	**Band 2**	**Band 3**	**Band 4**
Band name	Cellular	Cellular	Cellular	Wi-Fi
Frequency (MHz)	694 – 790	790 – 960	1710 – 2690	1710 – 2690
VSWR	2.1	1.8	2	1.8
Gain (dBi)	5	5	4	6
Port Isolation (dB)	25	25	25	25
	Band 5	**Band 6**	**Band 7**	**Band 8**
Band name	Cellular	Wi-Fi	GNSS	Stick antenna socket
Frequency (MHz)	3400 – 3800	4900 – 7125	1559 – 1610	
SWR	2	2	1.8	
Gain (dBi)	6	7		
Port Isolation (dB)	25	20		

Electrical data	
Impedance	50 Ohms
Number of Ports	4
Composite power max.	30 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical (Cellular and Wi-Fi) and Circular right (GNSS)

Mechanical data	
Dimensions (height × width × depth)	82 × 83 × 208 mm
Weight	0.41 kg

Environmental data	
Environmental conditions	outdoor
IP rating	IP68, IP69k
RoHS 2011/65/EU	compliant
Certifications	EN50155, EN45545-2, NFPA-130

Material data	
Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminium

For more detailed information, please visit our website "Products" section.

SENCITY Tram

Product name	**SENCITY Tram with Cellular, Wi-Fi and L1 GNSS**
Product ID.	**1399.99.0202**
Description	Rugged vehicle rooftop multi-band antenna for Light Rail. Meets specific requirements of light rail market. Can be used as the wireless interface for multi-band communication on light rail trains and trams.
	· Supports 2G/3G/4G/5G cellular and Wi-Fi 2.4/5 GHz, Wi-Fi 6E bands and GNSS. · Embedded GNSS antenna with integrated low-noise amplifier · 3 elements in one housing and single-hole mounting · Meets EN50155 and fire retardant according to EN45545 and NFPA-130. · Works without metal ground plane.
Item no.	85177259

Technical Data	**Band 1**	**Band 2**	**Band 3**	**Band 4**
Band name	Cellular	Cellular	Cellular	Wi-Fi
Frequency (MHz)	694 – 790	790 – 960	1710 – 2690	1710 – 2690
VSWR	2.1	1.8	2	1.8
Gain (dBi)	5	5	4	6
Port Isolation (dB)	25	25	25	25

	Band 5	**Band 6**	**Band 7**
Band name	Cellular	Wi-Fi	GNSS
Frequency (MHz)	3400 – 3800	4900 – 7125	1559 – 1610
SWR	2	2	1.8
Gain (dBi)	6	7	
Port Isolation (dB)	25	20	

Electrical data	
Impedance	50 Ohms
Number of Ports	3
Composite power max.	30 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical (Cellular and Wi-Fi) and Circular right (GNSS)

Mechanical data	
Dimensions (height × width × depth)	82 × 83 × 208 mm
Weight	0.41 kg

Environmental data	
Environmental conditions	outdoor
IP rating	IP68, IP69k
RoHS 2011/65/EU	compliant
Certifications	EN50155, EN45545-2, NFPA-130

Material data	
Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminium

For more detailed information, please visit our website "Products" section.

SENCITY Tram

Product name	**SENCITY Tram with Tetra, Wi-Fi and L1 GNSS**
Product ID.	**1399.99.0207**
Description	Rugged vehicle rooftop multi-band antenna for Light Rail. Meets specific requirements of light rail market. Can be used as the wireless interface for multi-band communication on light rail trains and trams.
	· Supports Tetra and Wi-Fi 2.4/5 GHz, Wi-Fi 6E bands and GNSS. · Stick antenna option for Cellular, VHF, etc. · Embedded GNSS antenna with integrated low-noise amplifier · 3 elements in one housing plus one stick antenna option and single hole mounting. · Meets EN50155 and fire retardant according to EN45545 and NFPA-130. · Works without metal ground plane.
Item no.	85180564

Technical Data	**Band 1**	**Band 2**	**Band 3**
Band name	Tetra	Wi-Fi	Wi-Fi
Frequency (MHz)	410 – 430	2400 – 2690	4900 – 7125
VSWR	2	1.8	1.8
Gain (dBi)	4	7	7
Port Isolation (dB)	20	20	20

	Band 4	**Band 5**
Band name	GNSS	Stick antenna socket
Frequency (MHz)	1559 – 1610	
SWR	1.8	
Gain (dBi)		
Port Isolation (dB)		

Electrical data	
Impedance	50 Ohms
Number of Ports	4
Composite power max.	30 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical (Tetra and Wi-Fi), Circular right (GNSS)

Mechanical data	
Dimensions (height × width × depth)	82 × 83 × 208 mm
Weight	0.41 kg

Environmental data	
Environmental conditions	outdoor
IP rating	IP68, IP69k
RoHS 2011/65/EU	compliant
Certifications	EN50155, EN45545-2, NFPA-130

Material data	
Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminium

For more detailed information, please visit our website "Products" section.

SENCITY Tram MIMO

Product name	**SENCITY Tram MIMO with 3×3 Wi-Fi**
Product ID.	**1399.99.0203**
Description	Rugged vehicle rooftop multi-band antenna for Light Rail. Meets specific requirements of light rail market. Can be used As the wireless interface for multi-band communication on light rail trains and trams.
	· Supports MIMO for Wifi 2.4/5 GHz, Wifi 6E bands in 3×3 configuration. · 3 elements in one housing and single-hole mounting · Meets EN50155 and fire retardant according to EN45545 and NFPA-130. · Works without metal ground plane.
Item no.	85197331

Technical Data	**Band 1**	**Band 2**
Band name	Wi-Fi	Wi-Fi
Frequency (MHz)	2500 – 2690	4900 – 7152
VSWR	2.0	2.0
Gain (dBi)	6	7
Port Isolation (dB)	14	22

Electrical data	
Impedance	50 Ohms
Number of Ports	3
Composite power max.	30 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical (Wi-Fi)

Mechanical data	
Dimensions (height × width × depth)	82 × 83 × 208 mm
Weight	0.41 kg

Environmental data	
Environmental conditions	outdoor
IP rating	IP68, IP69k
RoHS 2011/65/EU	compliant
Certifications	EN50155, EN45545-2, NFPA-130

Material data	
Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminium

For more detailed information, please visit our website "Products" section.

SENCITY Tram MIMO

Product name	**SENCITY Tram MIMO with 2×2 Cellular**
Product ID.	**1399.99.0204**
Description	Rugged vehicle rooftop multi-band antenna for Light Rail. Meets specific requirements of light rail market. Can be used as the wireless interface for multi-band communication on light rail trains and trams.
	· Supports 2G/3G/4G/5G cellular in 2×2 MIMO configuration. · 2 elements in one housing and single-hole mounting · Meets EN50155 and fire retardant according to EN45545 and NFPA-130. · Works without metal ground plane.
Item no.	85180413

Technical Data	**Band 1**	**Band 2**	**Band 3**
Band name	Cellular	Cellular	Cellular
Frequency (MHz)	694 – 790	790 – 960	1710 – 2170
VSWR	1.8	1.8	1.8
Gain (dBi)	4	4.5	5
Port Isolation (dB)	12	12	15
	Band 4	**Band 5**	**Band 6**
Band name	Cellular	Cellular	Cellular
Frequency (MHz)	2400 – 2690	3400 – 3800	4900 – 7125
SWR	1.8	1.6	1.6
Gain (dBi)	5	6	6.5
Port Isolation (dB)	16	18	19

Electrical data	
Impedance	50 Ohms
Number of Ports	2
Composite power max.	20 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical (cellular)

Mechanical data	
Dimensions (height × width × depth)	98 × 83 × 208 mm
Weight	0.5 kg

Environmental data	
Environmental conditions	outdoor
IP rating	IP68, IP69k
RoHS 2011/65/EU	compliant
Certifications	EN50155, EN45545-2, NFPA-130

Material data	
Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminium

For more detailed information, please visit our website "Products" section.

SENCITY Tram MIMO

Product name	**SENCITY Tram MIMO with 2×2 Cellular and L1 GNSS**
Product ID.	**1399.99.0205**
Description	Rugged vehicle rooftop multi-band antenna for Light Rail. Meets specific requirements of light rail market. Can be used As the wireless interface for multi-band communication on light rail trains and trams.
	· Supports 2G/3G/4G/5G cellular in 2×2 MIMO configuration plus GNSS. · Embedded GNSS antenna with integrated low-noise amplifier · 3 elements in one housing and single-hole mounting · Meets EN50155 and fire retardant according to EN45545 and NFPA-130. · Works without metal ground plane.
Item no.	85176492

Technical Data	Band 1	Band 2	Band 3	Band 4
Band name	Cellular	Cellular	Cellular	Cellular
Frequency (MHz)	694 – 790	790 – 960	1710 – 2170	2400 – 2690
VSWR	1.8	1.8	1.8	1.8
Gain (dBi)	4	4.5	5	5
Port Isolation (dB)	12	12	15	18

	Band 5	Band 6	Band 7
Band name	Cellular	Cellular	GNSS
Frequency (MHz)	3400 – 4200	4900 – 7125	1559 – 1610
SWR	1.7	1.6	1.8
Gain (dBi)	6	6.5	
Port Isolation (dB)	15	19	

Electrical data	
Impedance	50 Ohms
Number of Ports	3
Composite power max.	20 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical (cellular) and circular right (GNSS)

Mechanical data	
Dimensions (height × width × depth)	98 × 83 × 208 mm
Weight	0.5 kg

Environmental data	
Environmental conditions	outdoor
IP rating	IP68, IP69k
RoHS 2011/65/EU	compliant
Certifications	EN50155, EN45545-2, NFPA-130

Material data	
Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminium

For more detailed information, please visit our website "Products" section.

SENCITY Tram MIMO

Product name	**SENCITY Tram MIMO with 2×2 Cellular, 2×2 Wi-Fi and L1 GNSS**
Product ID.	**1399.99.0206**
Description	Rugged vehicle rooftop multi-band antenna for Light Rail. Meets specific requirements of light rail market. Can be used as the wireless interface for multi-band communication on light rail trains and trams.
	· Supports 2×2 MIMO for 2G/3G/4G/5G cellular and Wi-Fi 2.4/5 GHz, Wi-Fi 6E bands plus offers GNSS. · Embedded GNSS antenna with integrated low-noise amplifier · 5 elements in one housing and single-hole mounting · Meets EN50155 and fire retardant according to EN45545 and NFPA-130. · Works without metal ground plane.
Item no.	85163180

Technical Data	Band 1	Band 2	Band 3	Band 4
Band name	Cellular	Cellular	Cellular	Wi-Fi
Frequency (MHz)	694 – 790	790 – 960	1710 – 2170	2400 – 2690
VSWR	1.8	1.7	1.7	2
Gain (dBi)	4	4	5	6
Port Isolation (dB)	10	10	12	10
	Band 5	**Band 6**	**Band 7**	**Band 8**
Band name	Cellular	Cellular	Wi-Fi	GNSS
Frequency (MHz)	2400 – 2690	3400 – 3800	4900 – 7125	1559 – 1610
SWR	2	1.7	1.8	1.8
Gain (dBi)	4	4	5	6
Port Isolation (dB)	10	10	12	10

Electrical data	
Impedance	50 Ohms
Number of Ports	5
Composite power max.	20 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical (Cellular and Wi-Fi), Circular right (GNSS)

Mechanical data	
Dimensions (height × width × depth)	98 × 83 × 208 mm
Weight	0.5 kg

Environmental data	
Environmental conditions	outdoor
IP rating	IP68, IP69k
RoHS 2011/65/EU	compliant
Certifications	EN50155, EN45545-2, NFPA-130

Material data	
Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminium

For more detailed information, please visit our website "Products" section.

SENCITY Tram MULTI

Product name	**SENCITY Tram MULTI with 4×4 Cellular and 4×4 Wi-Fi MIMO and Dualband GNSS**
Product ID.	**1399.99.0233**
Description	Rugged multi-element and multi-band rooftop antenna for Light Rail. Meets specific requirements of light rail market. Omnidirectional radiation with 4×4 MIMO operation in cellular and 4×4 MIMO in Wi-Fi networks with integrated GNSS for L1, L2, L5. More variants as described on page 123.
	· Supports 2G/3G/4G/5G cellular, Wi-Fi 2.4/5 GHz, Wi-Fi 6E. · Includes dual band GNSS antenna & integrated LNA covering GPS L1+L2+L5/Galileo E1+E5a+E5b/BeiDou B1+B2+B3/GLONASS G1+G2 · 9 separate ports for 4×4 cellular MIMO and 4×4 Wi-Fi MIMO plus dual band GNSS. · Meets EN50155 and fire retardant according to EN45545 and NFPA-130. · Single-hole mounting, easy cabling feed-through. · Works without metal ground plane.
Item no.	85185407

Technical Data	**Band 1**	**Band 2**	**Band 3**	**Band 4**
Band name	Cellular	Cellular	Cellular	Cellular
Frequency (MHz)	617 – 960	1350 – 2700	3300 – 4200	4900 – 7125
VSWR	2	2.1	2	2
Gain (dBi)	2	4	4	5
Port Isolation (dB)	9	18	15	18
	Band 5	**Band 6**	**Band 7**	**Band 8/9**
Band name	Wi-Fi	Wi-Fi	GNSS	GNSS
Frequency (MHz)	2400 – 2500	4900 – 7125	1164 – 1279	1164 – 1279 / 1559 – 1610
SWR	2	2	1.5	1.5 / 1.8
Gain (dBi)	6	6		
Port Isolation (dB)	24	24		

Electrical data	
Impedance	50 Ohms
Number of Ports	9
Composite power max.	30 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical (Cellular and Wi-Fi), Circular right (GNSS)

Mechanical data	
Dimensions (diameter × height)	210 × 60 mm
Weight	1.1 kg

Environmental data	
Environmental conditions	outdoor
IP rating	IP68, IP69k
RoHS 2011/65/EU	compliant
Certifications	EN50155, EN45545-2, NFPA-130

Material data	
Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminium

For more detailed information, please visit our website "Products" section.

SENCITY Tram MULTI

Product name	**SENCITY Tram MULTI with 8×8 Wi-Fi and Dualband GNSS**
Product ID.	**1399.99.0237**
Description	Rugged multi-element and multi-band rooftop antenna for Light Rail. Meets specific requirements of light rail market. Omnidirectional radiation with 8×8 MIMO operation in Wi-Fi networks with integrated GNSS. More variants as described on page 123.
	· Supports Wi-Fi 2.4/5 GHz, Wi-Fi 6E · Includes dual band GNSS antenna & integrated LNA covering GPS L1+L2+L5/Galileo E1+E5a+E5b/BeiDou B1+B2+B3/GLONASS G1+G2 · 9 separate ports 8×8 Wi-Fi MIMO plus dual band GNSS. · Meets EN50155 and fire retardant according to EN45545 and NFPA-130. · Single-hole mounting, easy cabling feed-through. · Works without metal ground plane.
Item no.	85185419

Technical Data	Band 1	Band 2	Band 3	Band 4
Band name	Wi-Fi	Wi-Fi	GNSS	GNSS
Frequency (MHz)	2400 – 2500	4900 – 7125	1559 – 1610	1559 – 1610
VSWR	2	2	1.8	1.8
Gain (dBi)	6	6		
Port Isolation (dB)	24	24		

Electrical data	
Impedance	50 Ohms
Number of Ports	9
Composite power max.	30 Watts (see datasheet for specific bands)
Polarisation	Vertical (Wi-Fi), Circular right (GNSS)

Mechanical data	
Dimensions (diameter × height)	210 × 60 mm
Weight	1.1 kg

Environmental data	
Environmental conditions	outdoor
IP rating	IP68, IP69k
RoHS 2011/65/EU	compliant
Certifications	EN50155, EN45545-2, NFPA-130

Material data	
Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminium

For more detailed information, please visit our website "Products" section.

SENCITY Tram MULTI

Product name	**SENCITY Tram MULTI with 2×2 TETRA, 4×4 Wi-Fi MIMO and Dualband GNSS**
Product ID.	**1399.99.0253**
Description	Rugged multi-element and multi-band rooftop antenna for Light Rail. Meets specific requirements of light rail market. Omnidirectional radiation with 2×2 TETRA, 4×4 MIMO operation in Wi-Fi networks and with integrated GNSS. More variants as described on page 123.
	· Supports TETRA, LTE450, 2G/3G/4G/5G cellular, Wi-Fi 2.4/5 GHz, Wi-Fi 6E. · Includes dual band GNSS antenna & integrated LNA covering GPS L1+L2+L5/Galileo E1+E5a+E5b/BeiDou B1+B2+B3/GLONASS G1+G2 · 7 separate ports for 2×2 TETRA/cellular and 4×4 Wi-Fi MIMO plus dual band GNSS. · Meets EN50155 and fire retardant according to EN45545 and NFPA-130. · Single-hole mounting, easy cabling feed-through
Item no.	85185041

Technical Data	Band 1	Band 2	Band 3	Band 4
Band name	TETRA/LTE450	Cellular	Cellular	Cellular
Frequency (MHz)	380 – 470	694 – 960	1350 – 2700	3300 – 4200
VSWR	2.5	2.0	2.0	2.0
Gain (dBi)	3	2	4	4
Port Isolation (dB)	3	8	15	20
	Band 5	**Band 6**	**Band 7**	**Band 8/9**
Band name	Cellular	Wi-Fi	Wi-Fi	GNSS
Frequency (MHz)	4900 – 7125	2400 – 2500	4900 – 7125	1164 – 1279 / 1559 – 1610
SWR	2.0	2.0	2.0	1.5 / 1.8
Gain (dBi)	5	6	6	
Port Isolation (dB)	20	20	20	

Electrical data	
Impedance	50 Ohms
Number of Ports	7
Composite power max.	30 – 40 Watts (see datasheet for specific bands)
Polarisation	Vertical (Tetra and Wi-Fi), Circular right (GNSS)

Mechanical data	
Dimensions (diameter × height)	210 × 60 mm
Weight	1.1 kg

Environmental data	
Environmental conditions	outdoor
IP rating	IP68, IP69k
RoHS 2011/65/EU	compliant
Certifications	EN50155, EN45545-2, NFPA-130

Material data	
Radome colour	RAL 9017 (black)
Radome material	PC (Polycarbonate)
Back plate / base plate material	Aluminium

For more detailed information, please visit our website "Products" section.

Light rail

The SENCITY Tram MULTI portfolio is designed for 4×4 MIMO operation in cellular, 8×8 MIMO in Wi-Fi networks and in addition comes with 2×2 TETRA options. It offers a variety of combinations of up to 9 radiators within one housing and comes with an GNSS option for L1, L2, L5 operation. The standard versions are listed below:

Product ID	Article No.	Cellular	Wi-Fi	TETRA	GNSS
1399.19.0208	85185402	2			
1399.99.0209	85185403	2			L1+L2+L5
1399.99.0208	85185404	2			L1
1399.19.0210	85185371	2	2		
1399.99.0211	85185373	2	2		L1+L2+L5
1399.99.0210	85185374	2	2		L1
1399.19.0212	85185375	2	3		
1399.99.0213	85185379	2	3		L1+L2+L5
1399.99.0212	85185381	2	3		L1
1399.19.0214	85185382	2	4		
1399.99.0215	85185383	2	4		L1+L2+L5
1399.99.0214	85185384	2	4		L1
1399.19.0216	85185385	4			
1399.99.0217	85185386	4			L1+L2+L5
1399.99.0216	85185387	4			L1
1399.19.0218	85185388	4	2		
1399.99.0219	85185389	4	2		L1+L2+L5
1399.99.0218	85185390	4	2		L1
1399.19.0220	85185391	4	3		
1399.99.0221	85185395	4	3		L1+L2+L5
1399.99.0220	85185397	4	3		L1
1399.19.0232	85185406	4	4		
1399.99.0233	85185407	4	4		L1+L2+L5
1399.99.0232	85185408	4	4		L1
1399.19.0234	85185409		6		
1399.99.0235	85185416		6		L1+L2+L5
1399.99.0234	85185417		6		L1
1399.19.0236	85185418		8		
1399.99.0237	85185419		8		L1+L2+L5
1399.99.0236	85185420		8		L1
1399.19.0238	85185512			1	
1399.99.0239	85185513			1	L1+L2+L5
1399.99.0238	85185514			1	L1
1399.19.0240	85185515		2	1	
1399.99.0241	85185516		2	1	L1+L2+L5
1399.99.0240	85185517		2	1	L1
1399.19.0242	85185518		3	1	
1399.99.0243	85185523		3	1	L1+L2+L5
1399.99.0242	85185524		3	1	L1
1399.19.0244	85185525		4	1	
1399.99.0245	85185526		4	1	L1+L2+L5
1399.99.0244	85185527		4	1	L1
1399.19.0246	85185528			2	
1399.99.0247	85185529			2	L1+L2+L5
1399.99.0246	85185533			2	L1
1399.19.0248	85185534		2	2	
1399.99.0249	85185535		2	2	L1+L2+L5
1399.99.0248	85185536		2	2	L1
1399.19.0250	85185038		3	2	
1399.99.0251	85185037		3	2	L1
1399.99.0250	85185036		3	2	L1
1399.19.0252	85185039		4	2	
1399.99.0253	85185041		4	2	L1+L2+L5
1399.99.0252	85185042		4	2	L1

Outline drawing and mounting instruction are the same for every antenna.

Light rail antennas