SerenityLine® Microwave Antennas

ETSI Class 4 super high performance antennas **increase link capacity** in high-density environments

Radio Frequency Systems (RFS) Class 4 microwave antennas provide the market's best RF performance and allow mobile operators to increase the link capacity of a network by deploying new microwave links where high levels of interference are present.

Class 4 antennas will allow customers to offer the highest performance in even the most congested environments. The higher side lobe suppression supports networks in ultra-dense areas and enables earlier reuse of frequencies. The lower interference increases the carrier-to-interference-ratio and allows smaller antennas with better link throughput, reducing tower leasing fees. The lower interference also enables higher modulation schemes, increasing the data capacity per antenna.

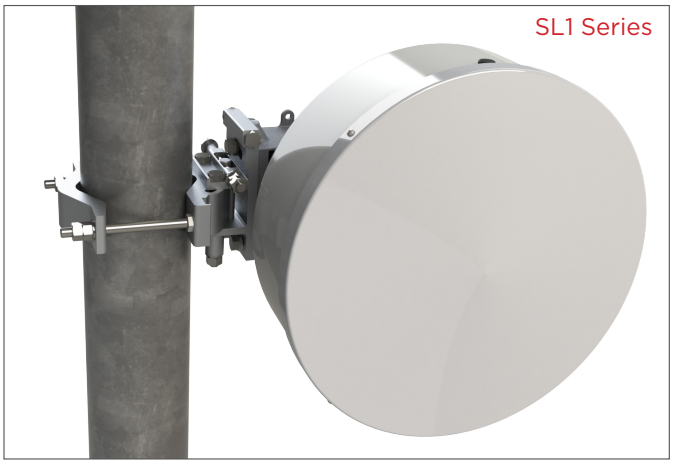
The lightweight, easy-to-install 1, 2 and 3 feet* SerenityLine antennas minimize the total cost of ownership by improving network efficiency, facilitating better re-use of a frequency channel, and decreasing installation expenses. EURO pallets are available for select antennas and regions. The latest offerings are available in both single (SL) and dual polarization (SLX) versions.

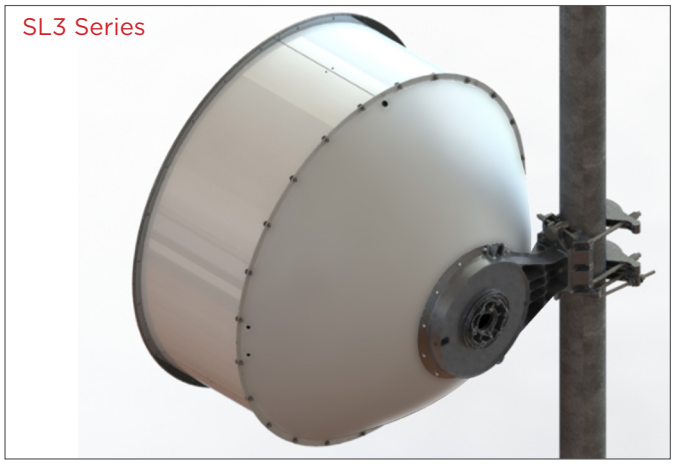
RFS SerenityLine antennas help mobile operators satisfy their customer connection expectations

Exclusive Features and Benefits

RFS positions operators and integrators for the future

- **Increase the link capacity of the network**
  - *Improved radiation patterns for ETSI Class 4 providing better performance*
  - *Less interference and higher carrier-to-interference ratio*
  - *Allows radios to operate at higher modulation levels*
- **Additional frequencies available for 3ft Class 4**
  - *Offering the largest Class 4 selection in the industry*
- **Minimize the total cost of ownership**
  - *Improved network efficiency*
  - *Facilitates better re-use of a frequency channel*
  - *Small antennas with better link throughput reduces tower leasing fees*
- **Easy to install**
  - *Very low weight: 5 kg (1ft), 10 kg (2ft), 25 kg (3ft)*
  - *Factory-installed feeds for 1 and 2ft antennas*
  - *Pre-assembled mounting system for the fastest installations*
  - *Lower cost of installation*
- **In-field upgrades – flexible feed design**
  - *Upgrade from single to dual polarization in the field*
  - *Build for the future – upgrade to the next generation radio in the field*
- **Available in both single (SL) and dual (SLX) polarization versions**





1 ft SerenityLine Antenna Specifications

Frequency Band, GHz	Model Name Single-Pol	Model Name Dual-Pol	Low Band Gain, dBi	Mid Band Gain, dBi	High Band Gain, dBi	Half Power Beamwidth	Front-To-Back Ratio	ETSI Compliance
21.2-23.6	SL1-220Ax	SLX1-220Ax	35.5	36.0	36.5	2.7	68	R3C4
24.25-26.5	SL1-250Ax	SLX1-250Ax	36.9	37.3	37.7	2.3	69	R4C4
27.5-29.5	SL1-280Ax	SLX1-280Ax	38.2	38.4	38.8	2.2	71	R4C4
31.0-33.4	SL1-320Ax	SLX1-320Ax	39.2	39.5	39.7	1.9	70	R5C4
37.0-40.0	SL1-380Ax	SLX1-380Ax	40.2	40.5	40.9	1.7	72	R5C4
40.5-43.5	SL1-420Ax	SLX1-420Ax	40.8	41.2	41.5	1.5	72	R5C4

2 ft SerenityLine Antenna Specifications

Frequency Band, GHz	Model Name Single-Pol	Model Name Dual-Pol	Low Band Gain, dBi	Mid Band Gain, dBi	High Band Gain, dBi	Half Power Beamwidth	Front-To-Back Ratio	ETSI Compliance
14.2-15.35	SL2-142Bx	SLX2-142Bx	36.4	36.8	37	2.3	68	R2C4
17.7-19.7	SL2-190Bx	SLX2-190Bx	38.3	38.6	39.1	1.9	70	R2C4
21.2-23.6	SL2-220Bx	SLX2-220Bx	40.1	40.6	41.2	1.6	72	R3C4
24.25-26.5	SL2-250Bx	SLX2-250Bx	41.1	41.7	42.1	1.4	73	R4C4
27.5-29.5	SL2-280Bx	SLX2-280Bx	42.2	42.6	42.8	1.2	73	R4C4
31.0-33.4	SL2-320Bx	SLX2-320Bx	43.2	43.6	44	1.1	72	R5C4
37.0-40.0	SL2-380Bx	SLX2-380Bx	44.6	45.2	45.7	0.8	72	R5C4
40.5-43.5	SL2-420Bx	SLX2-420Bx	45.5	45.7	46.1	0.7	75	R5C4

3 ft SerenityLine Antenna Specifications

Frequency Band, GHz	Model Name Single-Pol	Model Name Dual-Pol	Low Band Gain, dBi	Mid Band Gain, dBi	High Band Gain, dBi	Half Power Beamwidth	Front-To-Back Ratio	ETSI Compliance
5.925-7.125	SL3-W60Ax	SLX3-W60Ax	32	33.2	33.9	3	64	R1C3*
7.125-8.5	SL3-W71Ax	SLX3-W71Ax	34.2	35.2	35.6	2.6	66	R1C3*
10.3-11.7	SL3-W100Ax	SLX3-W100Ax	37.6	38.3	39.1	2	69	R1C3*
12.7-13.25	SL3-127Ax	SLX3-127Ax	39.3	39.4	39.5	1.6	71	R1C4
14.2-15.35	SL3-142Ax	SLX3-142Ax	39.8	40.3	40.8	1.5	73	R2C4
17.7-19.7	SL3-190Ax	SLX3-190Ax	42.2	42.7	43.2	1.1	75	R2C4
21.2-23.6	SL3-220Ax	SLX3-220Ax	44.2	44.8	45.2	1	77	R3C4
24.25-26.5	SL3-250Ax	SLX3-250Ax	45.2	45.6	46.2	0.8	78	R4C4
27.5-29.5	SL3-280Ax	SLX3-280Ax	46	46.6	46.8	0.8	78	R4C4
31.0-33.4	SL3-320Ax	SLX3-320Ax	47.2	47.5	47.8	0.7	79	R5C4
37.0-40.0	SL3-380Ax	SLX3-380Ax	48.7	49	49.3	0.6	80	R5C4

*Note: ETSI class 3 due to physical constrains of the antennas, however, the radiation patterns are significantly better than CompactLine antennas

Place an order or request more information:
https://info.rfsworld.com/contact-us