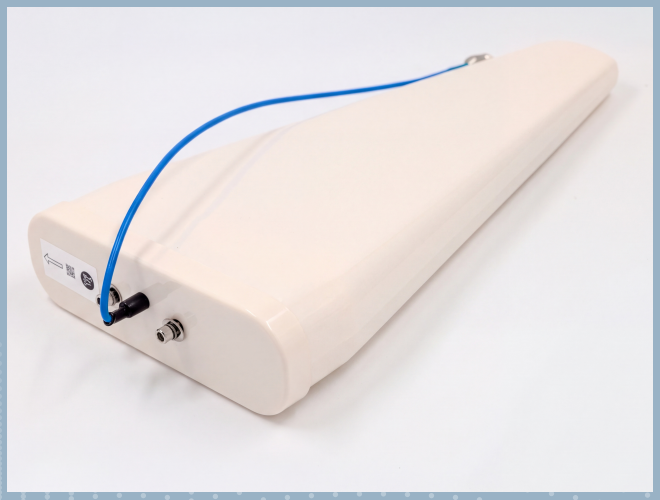
STREAMIT

ROCK SOLID AUDIO SOLUTIONS



Omni outdoor antenna



Yagi outdoor antenna

Iris Outdoor antennas

Omnidirectional coverage.
Directional focus.

IRIS ACCESSORIES

STREAMIT.EU

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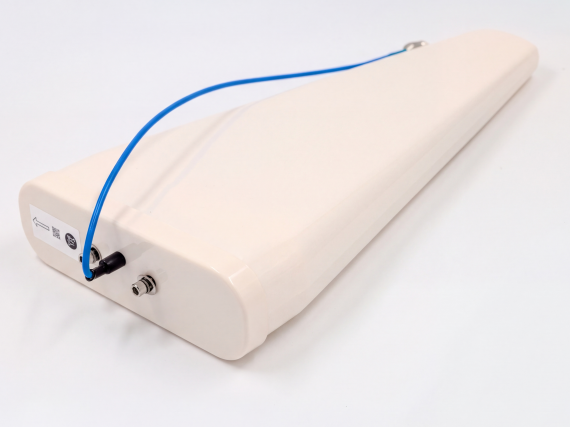
TWO ANTENNAS, TWO COVERAGE PATTERNS

Outdoor antenna placement gives you flexibility when planning your wireless installation. Choose an omnidirectional antenna for coverage around the antenna, or a directional antenna to focus coverage towards a specific area.





Omni outdoor antenna

Coverage all around.

The Omni outdoor antenna provides a 360° horizontal coverage pattern. Its compact fibreglass housing is rated IP66. The included stainless steel bracket supports mounting on poles up to 48 mm in diameter.

- 360° horizontal coverage
- Vertical polarization
- IP66 housing
- 200 mm long, excluding bracket
- Stainless steel bracket included
- N-female connector

Yagi outdoor antenna

Coverage with direction.

The Yagi outdoor antenna provides a directional coverage pattern. Its broadband LPDA design is enclosed in a protective radome with a stainless steel mounting bracket. Aim it towards the intended coverage area.

- Directional coverage
- Vertical or horizontal polarization
- Protective radome
- Stainless steel mounting bracket
- Rated wind velocity: 120 km/h
- N-female connector

Actual coverage depends on antenna position, obstacles, cable length and the installation environment.

GET IN TOUCH

See more on our website: https://www.streamit.eu/iris-pro/

Get in touch with us if you have any questions about our products.

We are happy to help.

ANTENNA SPECIFICATIONS

Specification	Omni outdoor antenna	Yagi outdoor antenna
Frequency range	600-6000 MHz	522-960 MHz / 1710-2700 MHz
Gain*	3 / 6 dBi	8 / 11 dBi
VSWR	< 1.8	< 1.5
Polarization	Vertical	Vertical / horizontal
Horizontal beamwidth*	360°	65° / 50°
Vertical beamwidth*	80°	50° / 40°
Impedance	50 Ω	50 Ω
Maximum input power	50 W	50 W
Connector	N-female	N-female
Cable length (Aircell 7)	5 m standard; other lengths on request	5 m standard; other lengths on request
Dimensions	Length 200 mm; Ø 64 mm	442 × 205 × 62 mm
Weight	0.6 kg, including bracket	1.7 kg
Housing / protection	Fibreglass; IP66	Protective radome
Mounting	Stainless steel bracket; pole Ø up to 48 mm	Stainless steel bracket

* Gain and paired beamwidth values are as stated in the antenna specifications; values are not specified separately for 1.9 GHz.

INSTALLATION

Both antenna frequency ranges include the Iris Pro operating frequency of 1.9 GHz. The antennas have N-female connectors; Iris Pro has an SMA-female antenna connector. The Aircell 7 cable assembly is supplied with soldered SMA and N connectors.

Keep the cable run as short as practical to limit signal loss.

Specifications subject to change.

Flexible routing. Low signal loss.

Aircell 7 is a flexible 50 Ω coaxial cable designed for frequencies up to 6 GHz. A stranded copper inner conductor supports flexible routing, while a foamed polyethylene dielectric helps reduce signal loss. Double shielding combines copper foil and copper braid. The black PVC jacket is UV-stabilized.

TECHNICAL INFORMATION

Specification	Aircell 7
Frequency rating	Up to 6 GHz
Outer diameter	7.3 ± 0.2 mm
Impedance	50 ± 2 Ω
Weight	70 g/m
Minimum bend radius	4 × Ø single bend; 8 × Ø repeated
Fixed installation temperature	-55 to +85 °C
Shielding attenuation at 1 GHz	≥ 90 dB
Velocity factor / Euroclass	0.85 / Eca (EN 50575)

CABLE LENGTH AND SIGNAL LOSS

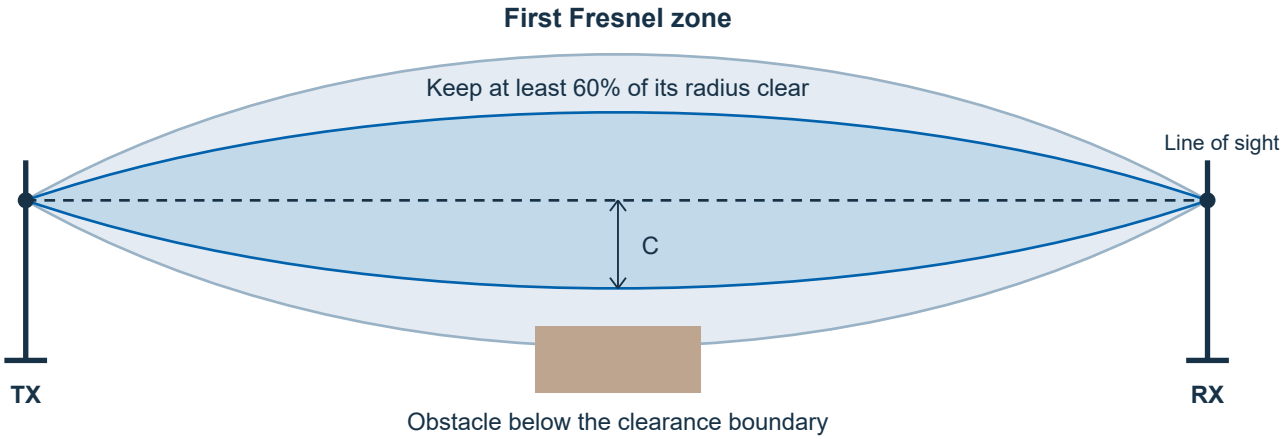
Frequency	Loss per 100 m	Loss per 5 m
1000 MHz	20.44 dB	1.02 dB
1800 MHz	28.50 dB	1.43 dB
2000 MHz	30.29 dB	1.51 dB
2400 MHz	33.82 dB	1.69 dB

Table: cable-only attenuation at 20 °C. Complete 5 m assembly: approximately 2.5 dB loss at 1.9 GHz, including SMA and N connectors.

INSTALLATION AND WIRELESS PERFORMANCE

- Position carefully. Keep antennas away from nearby metal, match polarization and aim the Yagi towards the other antenna.
- Minimise cable loss. Use the shortest practical Aircell 7 cable.
- Test on site. Keep devices stationary; allow about 10 seconds for initial connection. Check signal strength with the Iris Configurator app and verify audio. Aim for -65 dBm or better, with reserve for changing conditions.

KEEP THE FRESNEL ZONE CLEAR



Clear line of sight alone is not enough. Keep at least 60% of the first Fresnel-zone radius free of ground, trees and buildings. Raise antennas where needed.

MIDPOINT CLEARANCE AT 1.9 GHz

Link distance	Clearance C
25 m	0.6 m
100 m	1.2 m
500 m	2.7 m

DECT SIGNAL GUIDE

Signal strength	Category
≥ -45 dBm	Perfect
-65 to < -45 dBm	Good
-85 to < -65 dBm	Fair
< -85 dBm	Poor

ESTIMATED RECEIVED LEVEL (dBm)

Outdoor configuration	Audio	25 m	50 m	100 m	500 m
Omni + Omni	128 kbps	-42.6	-48.7	-54.7	-68.7
Omni + Omni	256 kbps	-43.6	-49.6	-55.6	-69.6
Omni TX + Yagi RX	128 kbps	-37.6	-43.7	-49.7	-63.7
Omni TX + Yagi RX	256 kbps	-38.6	-44.6	-50.6	-64.6

Free-space estimates; a 5 m Aircell 7 cable including connectors at each end of the link. Confirm usable range on site. Operation beyond approximately 550 m is not recommended.