



Camouflage Antennas

PROSE

Who We Are

Rosenberger Hochfrequenztechnik GmbH & Co. was founded in Germany in 1958 and ranks among the leading manufacturers of high-speed interconnect solutions worldwide. With its long tradition of excellence and innovation, Rosenberger has excelled and earned an outstanding reputation all over the world.

In early 2022 the Rosenberger Group announced the restructure of its antenna and coverage solution product portfolio with a new brand entity PROSE. The strategic focus of PROSE will be on the development of base station antennas, microwave antennas, indoor and outdoor coverage solutions, Open RAN sub-systems, data center, cabling system, IoT solutions, Automotive and related services.

As an independent entity, PROSE, with its lean, agile, and decentralized organizational structure, will be better placed to serve global customers and manage growth by bringing new technologies and solutions, aligned with the changing needs of customers in the telecom industry. The PROSE product portfolio will uphold Rosenberger's tradition of the highest innovation and quality while delivering improved technology expertise and enhanced local customer support around the globe.

PROSE consists of more than 2400 people, with 40+ subsidiaries sales/service offices, 4 factories, and 6 R&D centers covering mainly North America, Europe, the Middle East, Africa, and Asia. It will continue to serve more than 100 operators/service providers worldwide including a wide set of customized solutions for 5G deployments.

PROSE is an ISO 9001 quality system and ISO 14001 environmental system certified company. Equipped with advanced machinery, automatically assembly, and testing centers supported by a large group of more than 400 R&D engineers, state-of-the-art production assembly lines, and stringent product and quality control.

PROSE's reliability and competitiveness are the cornerstones of this sustainable growth, which have resulted in long-term partnerships with most of the leading companies in their respective industries. PROSE will continue to provide excellent product solutions and services for its customers around the world.



A: Pune, India
B: New Jersey, USA
C: Suzhou, China
D: Donauwörth, Germany

Mission

- Customer always comes first
- Drive innovation together with and for our customers
- Maintain a secure, humane and happy environment for our employees
- Develop our employees by investing in their education
- Take social responsibility
- Protect our environment with ecologically friendly products, production and processes

Core Value

- Value Innovation
- Customer Focus
- Sustainable Growth
- Social Responsibility



Products & Services

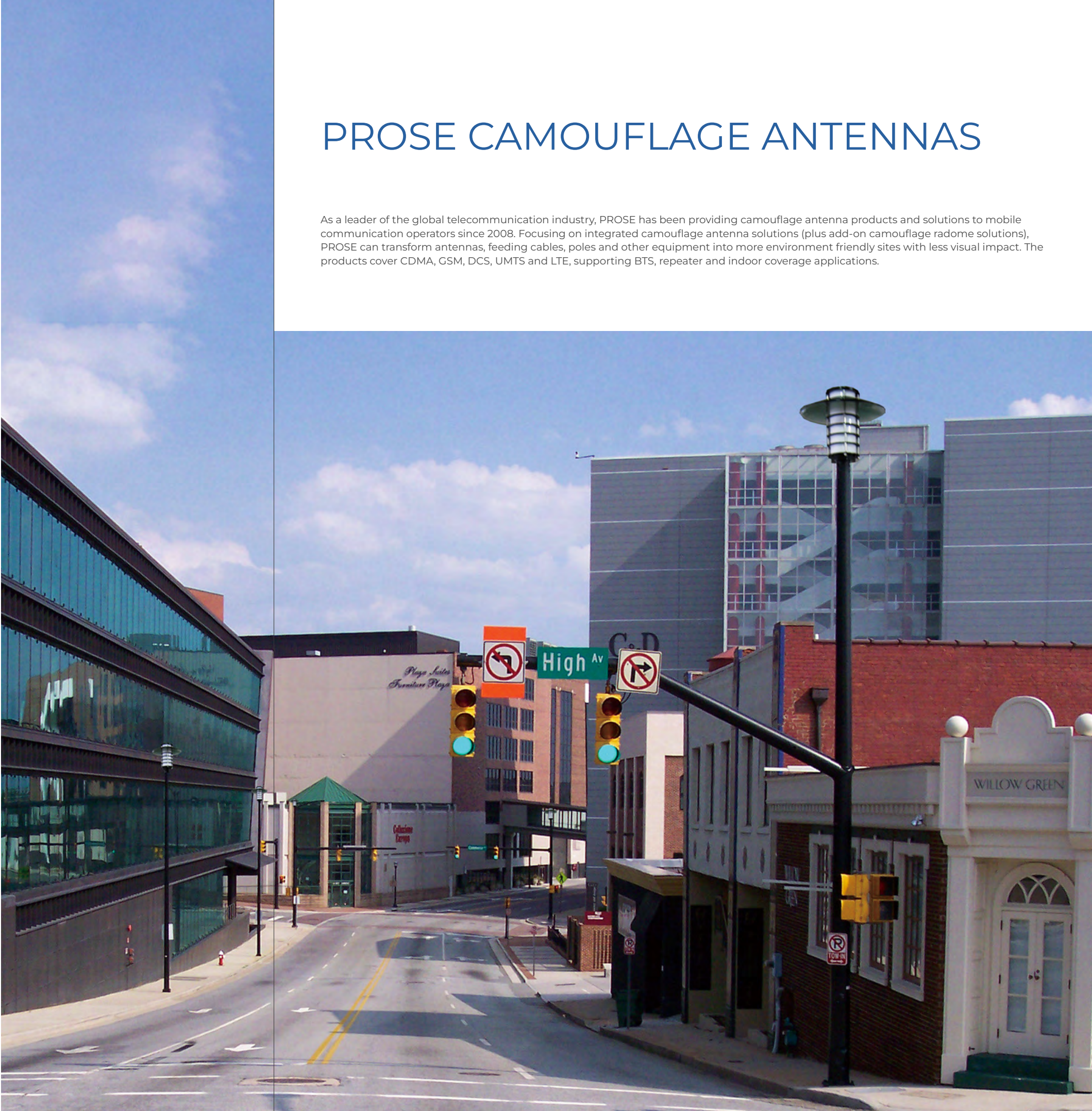
BTS Antennas	Single-MultiBand Antennas
	Multibeam Antennas
	Beamforming Antennas
	Small Cell Antennas
	High Efficiency BSA (PROTREEM)
	5G Massive MIMO Antennas
	Camouflage Products
	Combiner Unit
	Master Unit
	Extended Unit
	Low Power Remote Unit (LPRU)
	High Power Remote Unit (HPRU)-Cabinet 4G
Network Systems	High Power Remote Unit (HPRU)-Cabinet 5G
	High Power Remote Unit (HPRU)-Blade 4G
	High Power Remote Unit (HPRU)-Blade 5G
	Medium Power Remote Unit (MPRU)
	Passive DAS Components
	Class 3 Series
Microwave Products	Class 4 Series
	E-Band Series
	Dual-Band Series
	Microwave Components
	ORAN Radio Unit (ORU)
O-RAN Radios	Digital Control Unit (DCU)
	Small Cell
	RF Coaxial Products
	Power Products
	Fiber Products
Archer Site Accessories	Hybrid Cable Solution
	Installation Material
	Automatic Infrastructure Management
	System
	Building Cabling System
Digital World Products	Data Center Cabling System
	Edge Computing Data Center
	Modular Data Center
	MDC Cloud Management Platform
	Interference Mitigation Filters
Filter Solutions	Embedded Filters
	Site Combiners

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PROSE CAMOUFLAGE ANTENNAS

As a leader of the global telecommunication industry, PROSE has been providing camouflage antenna products and solutions to mobile communication operators since 2008. Focusing on integrated camouflage antenna solutions (plus add-on camouflage radome solutions), PROSE can transform antennas, feeding cables, poles and other equipment into more environment friendly sites with less visual impact. The products cover CDMA, GSM, DCS, UMTS and LTE, supporting BTS, repeater and indoor coverage applications.



BASE STATION CAMOUFLAGE ANTENNA



Cluster Antenna

- Application: One antenna structure covering three sectors, with each independent sector antenna
- Physical feature: Simple geometry with integrated antenna design
- Installation position: Rooftop of buildings or on ground with supporting pole
- Maintenance: Provision of maintenance door and ladder to access and install remote control unit for electrical downtilt and adjustment of azimuth
- Radome color: White

Frequency (MHz)	Gain (dBi)	Cross Section Size (mm)	Height (mm)	Weight (kg)
698-960	15	≤Ø540	2000	60
1710-2690	15	Ø200-280	1200	13
1710-2690	17	Ø200-280	1600	20
820-960/1710-2170	15/17	≤Ø540	2000	76
698-960/1710-2690	15/17	≤Ø540	2000	76
1710-2690/1710-2690	18/18	≤Ø540	2000	75
698-960/1710-2690/1710-2690	15/17/17	≤Ø540	2000	96
698-960/1710-2690 × 4	16/17/17/17/17	≤Ø540	2650	105
698-960/698-960/1710-2690/1710-2690	15/15/17/17	≤Ø650	2000	125
698-960 × 2/1710-2690 × 4	16/16/17/17/17/17	≤Ø650	2650	145
1710-2690/1710-2690/3300-3800(TDD)	16/16/15	≤Ø450	2000	85

Optional Accessories: 1 to 8 meter mounting pole

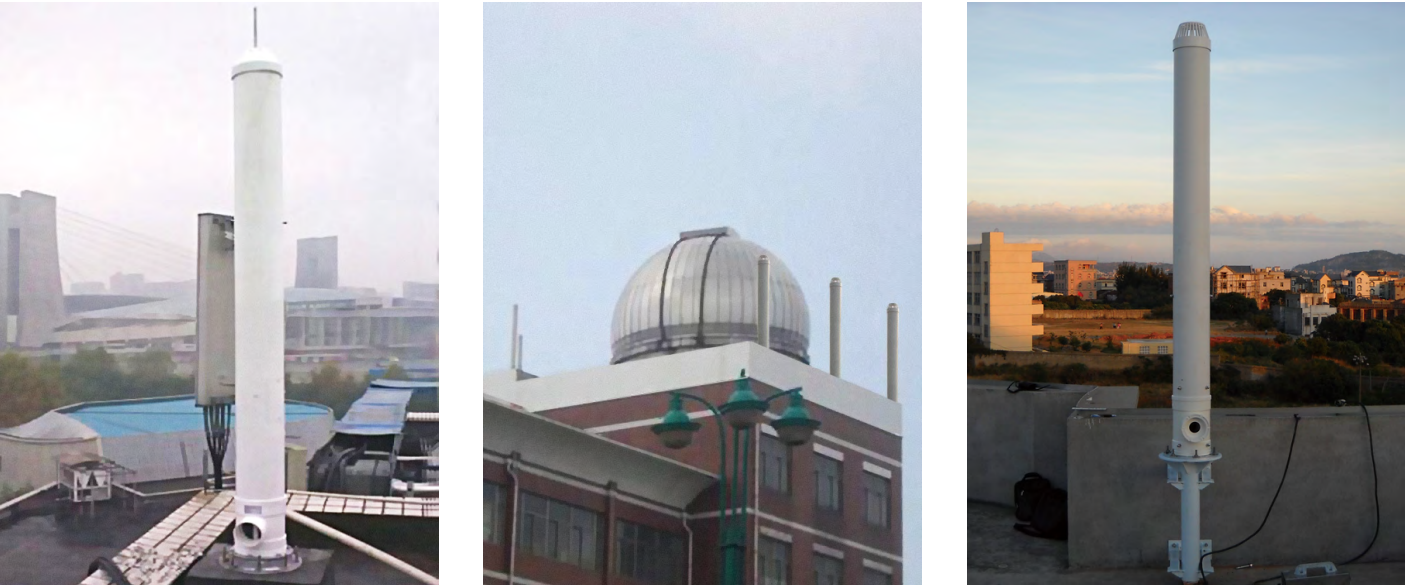


Exhaust Pipe Antenna

- Application: Single sector coverage
- Physical feature: The shape of antenna camouflages civil exhaust pipe with small profile and high levels of concealment
- Installation position: Rooftop of buildings
- Maintenance: Provision of maintenance door to access and install remote control unit for electrical downtilt and adjustment of azimuth
- Cover color: White

Frequency (MHz)	Gain (dBi)	Cross Section Size (mm)	Height (mm)	Weight (kg)
698-960	15	Ø200	1600	12
1710-2170	18	Ø200	1600	12
1710-2690	18	Ø200	1600	12
820-960/1710-2170	15/17	Ø200	1660	15
698-960/1710-2690	15/17	Ø200	1660	15
1710-2170/1710-2170/1710-2170	18/18/18	Ø280	2300	25
820-960/820-960/1710-2170/1710-2170	15/15/17/17	Ø380	2000	30
698-960/698-960/1710-2690/1710-2690	15/15/17/17	Ø380	2000	30
1710-2690/1710-2690/3300-3800(TDD)	17/17/15	Ø280	2300	27

Remarks: Configured with different heights of elevated frame (Please refer to product datasheet)



Square Column Antenna

- Application: Single sector coverage
- Physical feature: The shape of antenna blends with the surrounding environment
- Installation position: Rooftop of buildings
- Maintenance: Provision of maintenance door at antenna bottom to access and install remote control unit for electrical downtilt and adjustment of azimuth
- Cover color: Single or multiple colors

Frequency (MHz)	Gain (dBi)	Cross Section Size (mm)	Height (mm)	Weight (kg)
698-960	15	400x400	1900	35
1710-2170	18	400x400	1900	35
1710-2690	18	400x400	1900	35
820-960/1710-2170	15/17	400x400	1900	40
698-960/1710-2690/1710-2690	15/17/17	400x400	1900	43
1710-2690/1710-2690	17/17	400x400	1900	40
1710-2690/1710-2690/3300-3800(TDD)	17/17/15	400x400	1900	41

Remarks: Configured with different heights of elevated frame (Please refer to product datasheet)



Cylinder Antenna

- Application: Single sector coverage
- Physical feature: The shape of antenna blends with the surrounding environment
- Installation position: Rooftop of buildings
- Maintenance: Provision of maintenance door at antenna bottom to access and install remote control unit for electrical downtilt and adjustment of azimuth
- Cover color: Single or multiple colors

Frequency (MHz)	Gain (dBi)	Cross Section Size (mm)	Height (mm)	Weight (kg)
698-960	15	Ø400	1900	38
1710-2170	18	Ø400	1900	36
1710-2690	18	Ø400	1900	36
820-960/1710-2170	15/17	Ø400	1900	43
698-960/1710-2690	15/17	Ø400	1900	43
1710-2690/1710-2690	17/17	Ø400	1900	42
1710-2690/1710-2690/3300-3800(TDD)	17/17	Ø400	1900	44

Remarks: Configured with different heights of elevated frame (Please refer to product datasheet)



Air Conditioning Antenna

- Application: Single sector coverage
- Physical feature: The shape of antenna camouflages as civil air conditioning unit
- Installation position: Rooftop of buildings
- Maintenance: Provision of maintenance door to access and install remote control unit for lectrical downtilt and adjustment of azimuth
- Cover color: White

Frequency (MHz)	Gain (dBi)	Cross Section Size (mm)	Height (mm)	Weight (kg)
698-960	15	900x320	1990	48
1710-2690	18	900x320	1990	45
820-960/1710-2170	15/17	900x320	1990	52
698-960/1710-2690	15/17	900x320	1990	52
1710-2170/1710-2170	17/17	900x320	1990	51
1710-2690/1710-2690	17/17	900x320	1990	52
1710-2690/1710-2690/3300-3800(TDD)	17/17/15	900x320	1990	55

Remarks: Configured with different heights of elevated frame (Please refer to product datasheet)



COMMUNITY CAMOUFLAGE ANTENNA



Street Lamp Antenna

- Installation position: On outdoor grounds
- Internal antenna: Single omni-directional antenna
- Maintenance: Provision of maintenance door at antenna bottom
- Physical feature: Dual function of antenna radome and lighting cover

Frequency (MHz)	Gain (dBi)	HPBW (°)	VPBW(°)	Dimension (mm)	Weight (kg)	Remake
698-960/1710-2690	6/8	360	50/40	Ø76X1880 Overall height 3300-3500	21-25	1 port V Polarization Uptilt: 9-15°



Lawn Light Antenna

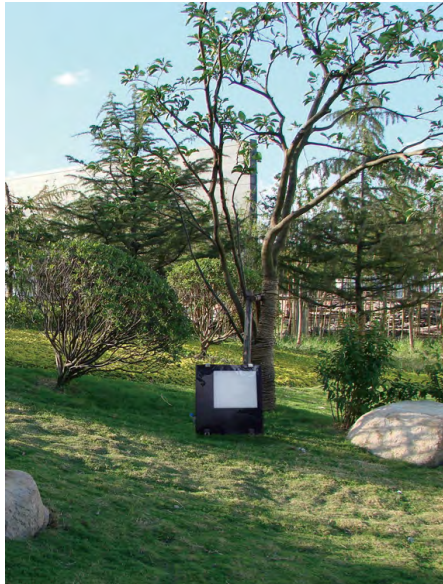
- Installation position: On outdoor grounds
- Internal antenna: Single omni directional antenna
- Maintenance: Provision of maintenance door at antenna bottom
- Physical feature: Dual function of antenna radome and lighting cover



Spotlight Antenna

- Installation position: On outdoor grounds or building rooftops
- Internal antenna: Single directional antenna
- Physical feature: Replica shape of real spotlight

Frequency (MHz)	Gain (dBi)	HPBW (°)	VPBW(°)	Dimension (mm)	Weight (kg)	Remake
820-960	15	32	32	540×540×188	5.5	2 port LB: ±45°
1710-2690	14	20	65	430×430×135	3.5	2 port HB: ±45°
698-960/1710-2690	13/15	32/16	65/65	540×540×188	5.3	3 port LB: V HB: ±45°
698-960/1710-2690	13/15	32/16	65/65	540×540×188	5.5	4 port LB: ±45° HB: ±45°
1710-2690/1710-2690	14/14	20	65	430×430×135	3.8	4 port HB: ±45°
3300-3800(TDD)	15/15	30	30	430×430×135	4.8	8 port HB: ±45°
1710-2690/3300-3800	12/14	35/22	60	430×360×135	3.5	4 port HB: ±45°



Elevator Antenna

- Installation position: Elevator box in the building
- Internal antenna: Single directional antenna
- Physical feature: Replica shape

Frequency (MHz)	Gain (dBi)	HPBW (°)	VPBW(°)	Dimension (mm)	Weight (kg)	Remake
820-960/1710-2690	12/15	32/25/20	55/60/50	450×450×120	4	1 port LB: V HB: V
820-960/1710-2690	12/15	32/25/20	55/60/50	450×450×120	4.2	2 port LB: ±45°HB: ±45°
1710-2690/1710-2690	14/14	25/20	60/50	450×450×120	3.8	2 port HB: ±45°
820-960/1710-2690/ 3300-3800	2010/11/12	35/30/28	35/30/28	416×440×164	4.2	2 port LB: ±45°HB: ±45°
820-960/1710-2690/ 3300-3800	2010/11/12	35/30/28	35/30/28	416×440×164	4.8	4 port LB: ±45°HB: ±45°



Outdoor Optical Fiber Box Antenna

- Installation position: Outdoor or outside wall in the building
- Internal antenna: Single directional antenna
- Physical feature: Replica shape

Frequency (MHz)	Gain (dBi)	HPBW (°)	VPBW(°)	Dimension (mm)	Weight (kg)	Remake
698-960/1710-2690	6/8	90/80	80	400×210×110	2.5	1 port LB: V HB: V
698-960/1710-2690/ 3300-3800	2006/8/8	90/80/80	80/75	400×210×110	2.6	1 port LB: V HB: V



Outdoor Wideband Box Antenna

- Installation position: Outside wall in the building
- Internal antenna: Single directional antenna
- Physical feature: Replica shape

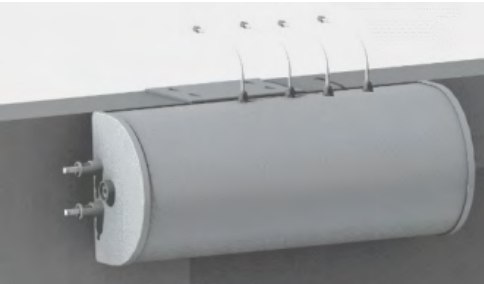
Frequency (MHz)	Gain (dBi)	HPBW (°)	VPBW(°)	Dimension (mm)	Weight (kg)	Remake
698-960/1710-2690	6/8	90/80	80	275×230×90	2.5	1 port LB: V HB: V
698-960/1710-2690/ 3300-3800	6/7.5/8	90/80/70	80/80/65	275×230×90	2.5	1 port LB: V HB: V



New building Antenna

- Installation position: Outside parapet wall in building
- Internal antenna: Single directional antenna
- Physical feature: Replica shape

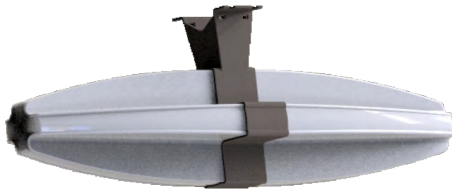
Frequency (MHz)	Gain (dBi)	HPBW (°)	VPBW(°)	Dimension (mm)	Weight (kg)	Remake
1710-2690/1710-2690	14/14	15	65/65	≤750×350×260	13	4 port HB: ±45°Polarization
1710-2690/3300-3800	14/14.5	15	65/65	≤750×350×260	13	4 port HB: ±45° Polarization



Tunnel Antenna

- Installation position: Tunnel for road and railway
- Internal antenna: Single directional antenna
- Physical feature: Replica shape

Frequency (MHz)	Gain (dBi)	HPBW (°)	VPBW(°)	Dimension (mm)	Weight (kg)	Remake
698-960/1710-2690/ 3300-3800	6.5/7.5/8.5	75/70/65	55/50/50	450×215×215	1.2	2 port LB& HB: ±45°polarization



Outdoor Surveillance Antenna

- Installation position: On exterior wall of buildings or outdoor poles
- Internal antenna: Single directional antenna
- Physical feature: Replica shape of real surveillance device

Frequency (MHz)	Gain (dBi)	Tilt	Dimension (mm)	Weight (kg)
698~960/1710~2690	8/10	/	Ø290X340	2.2

Remarks: Do not have surveillance function



Billboard Antenna

- Installation position: On outdoor grounds
- Internal antenna: Single directional antenna
- Physical feature: The shape of antenna blends with the surrounding environment, with dual function of antenna radome and advertising board

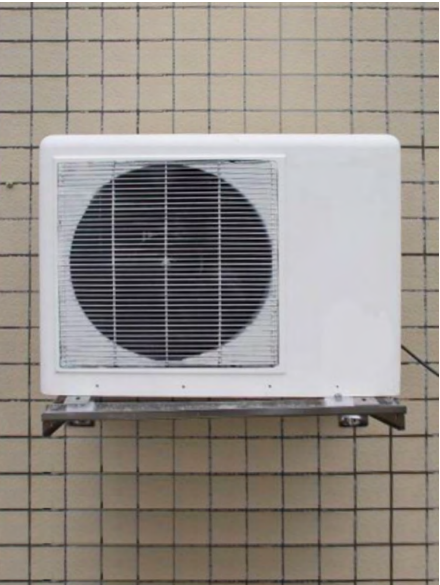
Frequency (MHz)	Gain (dBi)	Tilt	Dimension (mm)	Weight (kg)
698-960/1710-2690	8/10	0°	550×400×80, total height: 2000	19
698-960/1710-2690	8/10	0°	600×400×170, total height: 2550	21
698-960/1710-2690/3300-3800	7/8/9	0°	400×250×60	3
698-960/1710-2690	8/10	0°	400×250×60, total height: 680	11
698-960/1710-2690/3300-3800	7/8/9	0°	600×400×170, total height: 2200	19



Air Conditioning Antenna

- Installation position: Exterior wall of buildings
- Internal antenna: Single directional antenna
- Physical feature: Replica shape of real air conditioning unit

Frequency (MHz)	Gain (dBi)	HPBW (°)	VPBW(°)	Dimension (mm)	Weight (kg)	Remake
698-960/1710-2690	9/10	65	80/60	850×300×350	20	1 port V Polarization
698-960/1710-2690/3300-3800	8/11/12	70/65/60	65/35/30	850×300×350	21	1 port LB&HB: 45° Polarization
698-960/1710-2690/3300-3800	8/11/12	70/65/60	65/35/30	850×300×350	22	2 port LB&HB: 45° Polarization



Mushroom Antenna

- Installation position: On outdoor grounds
- Internal antenna: Single antenna
- Physical feature: The shape of antenna blends with the surrounding environment

Frequency (MHz)	Gain (dBi)	HPBW (°)	VPBW(°)	Dimension (mm)	Weight (kg)	Remake
698-960/1710-2690	3/4	360	80/55	Ø360X380	5	1 port V Polarization
698-960/1710-2690/3300-3800	4.5/5/5.0	65/60/45	65/60/45	Ø360X450	6.5	1 port V Polarization



INDOOR CAMOUFLAGE ANTENNA



Ceiling Lamp Antenna

Frequency (MHz)	Gain (dBi)	Weight (kg)	Dimension (mm)	Remarks	Picture
698-960 & 1710~2690 & 3300-3800	2/4	1	Ø320×110	1-2 port, Indoor omni-directional antenna Mounting onto plaster board ceiling Without lightings	
698~960 & 1710~2700 & 3300-3800	2/5	0.4	Ø290×120	1-2 port, Indoor directional antenna Mounting onto plaster board ceiling Without lightings	

Smoke Detector Antenna

Frequency (MHz)	Gain (dBi)	Weight (kg)	Dimension (mm)	Remarks	Picture
698~960 & 1710~2690	2/3	0.21	Ø115×73.5	Indoor omni-directional antenna Mounting onto plaster board ceiling Without smoke alarm function	
698~960 & 1710~2700	4/6	0.21	Ø115×73.5	Indoor directional antenna Mounting onto plaster board ceiling Without smoke alarm function	

Switch Antenna

Frequency (MHz)	Gain (dBi)	Weight (kg)	Dimension (mm)	Remarks	Picture
698-960 & 1710~2690	3/5	0.2	86×86×40	Built-in mounting on wall	

Card Antenna

Frequency (MHz)	Gain (dBi)	Weight (kg)	Dimension (mm)	Remarks	Picture
820~960 & 1710~2690	2/4	0.2	140×108×1	Ceiling mounting (no metal ceiling)	

Indoor Surveillance Antenna

Frequency (MHz)	Gain (dBi)	Weight (kg)	Dimension (mm)	Remarks	Picture
820~960 & 1710~2690	2/4	0.6	Ø120×110	Ceiling mounting Replica shape of real surveillance device Without surveillance function	

Wall Picture Antenna

Frequency (MHz)	Gain (dBi)	Weight (kg)	Dimension (mm)	Remarks	Picture
698-960 & 1710~2690	7/9	2	362×281×55	Indoor wall mounting Picture can be customized	

Wall Lamp Antenna

Frequency (MHz)	Gain (dBi)	Weight (kg)	Dimension (mm)	Remarks	Picture
698~960 & 1710~2690	6/8	2	362×281×55	Indoor wall mounting Without lightings	

Directional Ventilator Antenna

Frequency (MHz)	Gain (dBi)	Weight (kg)	Dimension (mm)	Remarks	Picture
698~960 & 1710~2690	6/8	0.9	350×350×135	Indoor ceiling mounting	

PROSE Service

PROSE offers professional services that improve network design, reliability, scalability and efficiency.

Our service core competences include:

Network optimization

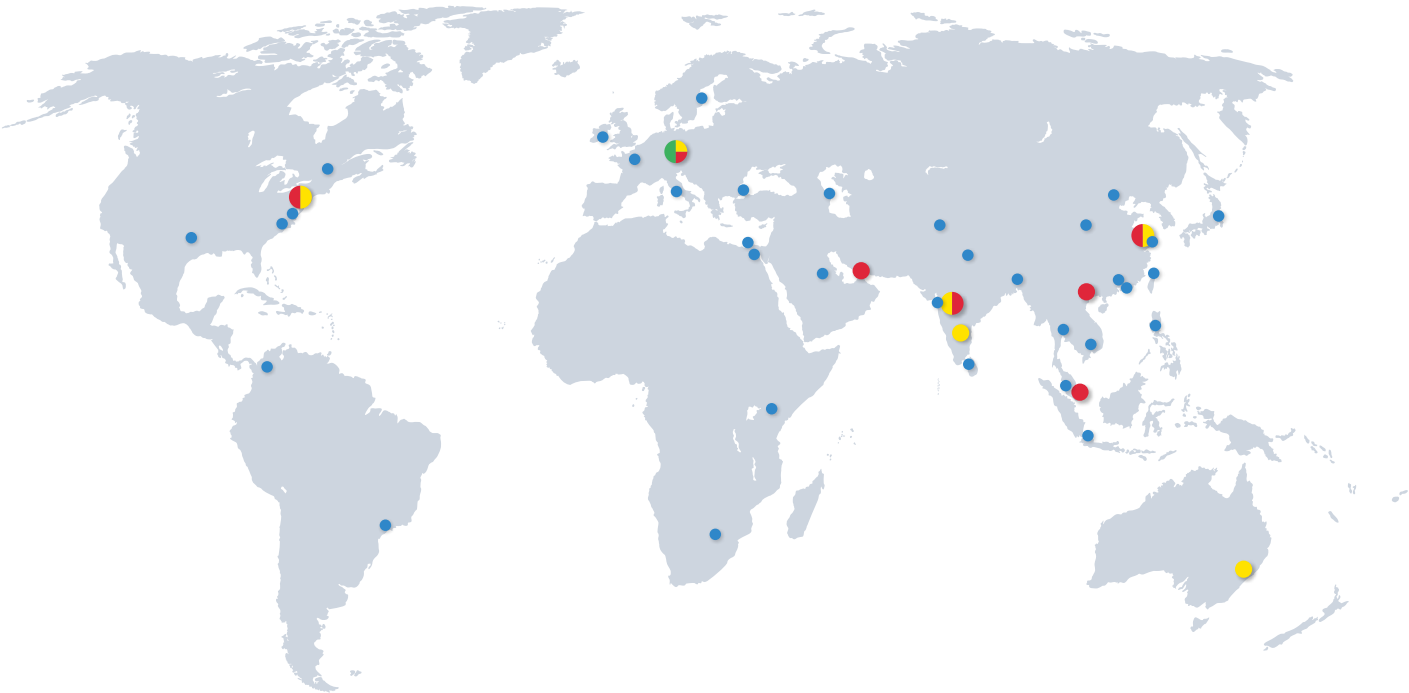
- Technical consultation
- Customized product design
- Installation & commissioning
- Onsite training & supervision
- System troubleshooting
- After-sales services

In addition, we also offer professional training, technical support and workshops for distributors and agents. We are committed to offering exceptional services for our customers.

PROSE is much more than just a supplier – PROSE is a valued development partner and we will strive to meet new challenges in order to scale to new heights.



GLOBAL FOOTPRINT



- HQ
- PRODUCTION / OPERATIONAL HUB
- R&D CENTER
- SUBSIDIARIES / SALES REPRESENTATIVES



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