



Megasphere™

- Cylindrical form factor
- High gain omnidirectional antenna
- Mounts to suspended ceiling grid or clamps to I-beam, etc.
- Excellent choice for open-air installation - (parking lot, storage yard, shipping/receiving, warehouse, etc.)



Multiversity™

- Utilizes Dipole version of the Phantom element to provide effective and clear communications and eliminate fading
- Ceiling and wall mount versions available

Microsphere™

- Omnidirectional pattern provides optimal in-building coverage
- 450, 850, 900, 1800, 1900, 2100 MHz, 2.4 GHz, Dual and Multi-band versions available
- Toroidal field pattern provides omnidirectional coverage in any plane around the long axis, and two lobes in any plane parallel to the long axis



Model	Description	Frequency	Gain	Cable	Connector	Max Input Power
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Megasphere™/Indoor

IG2450-NF12	MegaSphere	2.4-2.5 GHz	6 dBi	12"	N-Female	50W
IG2450-NF36	MegaSphere	2.4-2.5 GHz	6 dBi	36"	N-Female	50W
IG2450-NM36	MegaSphere	2.4-2.5 GHz	6 dBi	36"	N-Male	50W
IG2450-RB12	MegaSphere	2.4-2.5 GHz	6 dBi	12"	RP-BNC	50W
IG2450-RB36	MegaSphere	2.4-2.5 GHz	6 dBi	36"	RP-BNC	50W
IG2450-RS36	MegaSphere	2.4-2.5 GHz	6 dBi	36"	RP-SMA	50W
IG2450-RT36	MegaSphere	2.4-2.5 GHz	6 dBi	36"	RP-TNC	50W
IG2450-SM36	MegaSphere	2.4-2.5 GHz	6 dBi	36"	SMA Male	50W

Outdoor/Indoor Megasphere™

IGO2450-NF12	Outdoor/Indoor MegaSphere	2.4-2.5 GHz	5 dBi	12"	N-Female	50W
IGO2450-RT12	Outdoor/Indoor MegaSphere	2.4-2.5 GHz	5 dBi	12"	RP-TNC	50W
IGO2450-SM12	Outdoor/Indoor MegaSphere	2.4-2.5 GHz	5 dBi	12"	SMA Male	50W

Multiversity™ Indoor

MIA8063	Wall Mount Multiversity™	806-869 MHz	3 dB-MEG*	N-Female	100W
MIA8063ST	Ceiling Mount Multiversity™	806-869 MHz	3 dB-MEG*	N-Female	100W
MIA24003	Wall Mount Multiversity™	2.4-2.5 GHz	3 dB-MEG*	N-Female	100W
MIA24003ST	Ceiling Mount Multiversity™	2.4-2.5 GHz	3 dB-MEG*	N-Female	100W

Microsphere™

IF450-SM00	450 MHz MicroSphere™		3 dBi	none	SMA Male	50W
IF850-SF00	850 MHz MicroSphere™	806-960 MHz	3 dBi	none	SMA Female	50W
IF900-SF00	900 MHz MicroSphere™	880-960 MHz	3 dBi	none	SMA Female	50W
IF1800-SF00	1800 MHz MicroSphere™	1710-1880 MHz	3 dBi	none	SMA Female	50W
IF1900-SF00	1900 MHz MicroSphere™	1850-1990 MHz	3 dBi	none	SMA Female	50W
IF2100-SF00	2100 MHz UMTS MicroSphere™	1920-2170 MHz	3 dBi	none	SMA Female	50W
IF2450-SF00	2.4 GHz MicroSphere™	2.4-2.5 GHz	3 dBi	none	SMA Female	50W

Dual-Band Microsphere™

IF8519-SF00	850 & 1900 MHz Dual-band MicroSphere™	806-896 MHz 1850-1990 MHz	3 dBi	none	SMA Female	50W
IF9018-SF00	900 & 1800 MHz Dual-band MicroSphere™	880-960 MHz	3 dBi	none	SMA Female	50W

Model	Description	Frequency	Gain	Cable	Connector	Max Input Power
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Multi-Band Microsphere™/Ultrasphere™

IFMULT-NF00	Multi-Band MicroSphere™	AMPS 806-896 MHz GSM 880-960 MHz DCS 1710-1880 MHz PCS 1850-1990 MHz UMTS 1920-2170 MHz	3 dBi	none	N-Female	50W
IFMULT-SF00	Multi-Band MicroSphere™	AMPS 806-896 MHz GSM 880-960 MHz DCS 1710-1880 MHz PCS 1850-1990 MHz UMTS 1920-2170 MHz	3 dBi	none	SMA-Female	50W
IFMULT-SFRA00	Multi-Band MicroSphere™	AMPS 806-896 MHz GSM 880-960 MHz DCS 1710-1880 MHz PCS 1850-1990 MHz UMTS 1920-2170 MHz	3 dBi	none	SMA-Female	50W
IFULTRA-SF00	Multi-Band Ultrasphere™	AMPS 806-896 MHz GSM 880-960 MHz DCS 1710-1880 MHz PCS 1850-1990 MHz UMTS 1920-2170 MHz ISM (BT) 2400-2500 MHz	3 dBi	none	SMA-Female	50W

2.4 GHz Microsphere™ Diversity

IFD2450-RB36	2.4 GHz MicroSphere™ Diversity	2.4-2.5 GHz	3 dBi	36"	RP-BNC x 2	50W
IFD2450-RS36	2.4 GHz MicroSphere™ Diversity	2.4-2.5 GHz	3 dBi	60"	RP-SMA x 2	50W
IFD2450-RT36	2.4 GHz MicroSphere™ Diversity	2.4-2.5 GHz	3 dBi	36"	RP-BNC x 2	50W
IFD2450-RT60	2.4 GHz MicroSphere™ Diversity	2.4-2.5 GHz	3 dBi	60"	RP-BNC x 2	50W

Sphere™

IO850-NF36	850 MHz Sphere™	824-896 MHz	3 dBi	36" RG-142	N-Female	50W
IO850-SM36	850 MHz Sphere™	824-896 MHz	3 dBi	36" RG-142	SMA-Male	50W
IO1900-NF12	1900 MHz Sphere™	1850-1990 MHz	3 dBi	12" RG-142	N-Female	50W
IO1900-NF36	1900 MHz Sphere™	1850-1990 MHz	3 dBi	36" RG-142	N-Female	50W
IO1900-SM36	1900 MHz Sphere™	1850-1990 MHz	3 dBi	36" RG-142	SMA-Male	50W
IO2450-NF12	2.4 GHz Sphere™	2.4-2.5 GHz	3 dBi	12" RG-142	N-Female	50W
IO2450-RN12	2.4 GHz Sphere™	2.4-2.5 GHz	3 dBi	12" RG-142	RP-N-Female	50W
IO2450-RS60	2.4 GHz Sphere™	2.4-2.5 GHz	3 dBi	60" RG-142	RP-SM	50W
IO2450-RT36	2.4 GHz Sphere™	2.4-2.5 GHz	3 dBi	36" RG-142	RP-TNC	50W
IO2450-RT60	2.4 GHz Sphere™	2.4-2.5 GHz	3 dBi	60" RG-142	RP-TNC	50W
IO2450-RT84	2.4 GHz Sphere™	2.4-2.5 GHz	3 dBi	84" RG-142	RP-TNC	50W
IO2450-SM12	2.4 GHz Sphere™	2.4-2.5 GHz	3 dBi	12" RG-142	SMA-Male	50W
IO5250-RT36	5 GHz Sphere™	5.15-5.35 GHz	5 dBi	36" RG-142	RP-TNC	50W

2.4 GHz Sphere Diversity™

IOD2450-NF12	2.4 GHz Sphere™ Diversity	2.4-2.5 GHz	3 dBi	12" RG-142	N-Female x 2	50W
IOD2450-RT36	2.4 GHz Sphere™ Diversity	2.4-2.5 GHz	3 dBi	36" RG-142	RP-TNC x 2	50W

Microsphere™



Dual Band
Microsphere™



Ultrasphere™

- So small it can be hidden almost anywhere
- Omnidirectional coverage
- 179.2x 80.4 x 1.7 mm



2.4 GHz
Sphere™

Sphere™

- Omnidirectional pattern provides optimal in-building coverage
- 850, 1900, 2100 MHz, 2.4 and 5 GHz versions available
- Quick installation with a standard ceiling tile frame metal clip
- Considerable gain improvement over traditional dipole antennas



Whisper™

- Directional pattern provides targeted coverage to a specific area
- 850, 1900, 2.4 and 5 GHz versions available
- Self contained in its durable radome, the Whisper blends in anywhere
- Patented technology provides inexpensive reliability

Model	Description	Frequency	Gain	Cable Length	Connector
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Whisper Directional

850 MHz Whisper™

IDO850-NF00	850 MHz Outdoor Whisper	806-896 MHz	7.5 dBi	N/A	N-Female
ID850-SF00	850 MHz Indoor Whisper	806-896 MHz	7.5 dBi	N/A	SMA-Female

1900 MHz Whisper™

ID1900-NF12	1900 MHz Indoor Whisper	1850-1990 MHz	7.5 dBi	1 ft.	N-Female
ID1900-NF36	1900 MHz Indoor Whisper	1850-1990 MHz	7.5 dBi	3 ft.	N-Female
ID1900-SM36	1900 MHz Indoor Whisper	1850-1990 MHz	7.5 dBi	3 ft.	SMA-Male
IDO1900-SM12	1900 MHz Outdoor Whisper	1850-1990 MHz	7.5 dBi	1 ft.	SMA-Male
IDO1900-SM36	1900 MHz Outdoor Whisper	1850-1990 MHz	7.5 dBi	3 ft.	SMA-Male

2.4 GHz Indoor Whisper™

ID2450-NF12	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	1 ft.	N-Female
ID2450-NF36	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	3 ft.	N-Female
ID2450-NM12	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	1 ft.	N-Male
ID2450-NM36	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	3 ft.	N-Male
ID2450-NM60	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	5 ft.	N-Male
ID2450-RN12	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	1 ft.	RP-N-Female
ID2450-RS36	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	3 ft.	RP-SMA
ID2450-RS60	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	5 ft.	RP-SMA
ID2450-RT12	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	1 ft.	RP-TNC
ID2450-RT36	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	3 ft.	RP-TNC
ID2450-RT60	2.4 GHz Indoor Whisper	2.4-2.5 GHz	9 dBi	5 ft.	RP-TNC
ID2450-RT120	2.4 GHz Indoor Whisper	2.4-2.5 GHz	8 dBi	10 ft.	RP-TNC

2.4 GHz Outdoor Whisper™

IDO2450-NF12	2.4 GHz Outdoor Whisper	2.4-2.5 GHz	7.5 dBi	1 ft.	N-Female
IDO2450-RT12	2.4 GHz Outdoor Whisper	2.4-2.5 GHz	7.5 dBi	1 ft.	RP-TNC
IDO2450-RS36	2.4 GHz Outdoor Whisper	2.4-2.5 GHz	7.5 dBi	3 ft.	RP-SMA
IDO2450-RT36	2.4 GHz Outdoor Whisper - Marine Rated	2.4-2.5 GHz	7.5 dBi	3 ft.	RP-TNC

5 GHz Indoor Whisper™

ID5250-NF12	5 GHz Indoor Whisper	5.15-5.35 GHz	9 dBi	1 ft.	N-Female
ID5250-NF36	5 GHz Indoor Whisper	5.15-5.35 GHz	9 dBi	3 ft.	N-Female
ID5250-RT12	5 GHz Indoor Whisper	5.15-5.35 GHz	9 dBi	1 ft.	RP-TNC
ID5250-RT36	5 GHz Indoor Whisper	5.15-5.35 GHz	9 dBi	3 ft.	RP-TNC
ID5250-RS12	5 GHz Indoor Whisper	5.15-5.35 GHz	9 dBi	1 ft.	RP-SMA
ID5250-RS36	5 GHz Indoor Whisper	5.15-5.35 GHz	9 dBi	3 ft.	RP-SMA
ID5250-SM36	5 GHz Indoor Whisper	5.15-5.35 GHz	9 dBi	3 ft.	SMA-Male

Terrace™ Bidirectional

2.4 GHz Terrace™

IB2450-NF12	2.4 GHz Indoor Terrace	2.4-2.5 GHz	5 dBi	1 ft.	N-Female
IB2450-NF36	2.4 GHz Indoor Terrace	2.4-2.5 GHz	5 dBi	1 ft.	N-Female
IB2450-RN12	2.4 GHz Indoor Terrace	2.4-2.5 GHz	5 dBi	3ft.	RP-N-Female
IB2450-RS36	2.4 GHz Indoor Terrace	2.4-2.5 GHz	5 dBi	3ft.	RP-SMA
IB2450-RT12	2.4 GHz Indoor Terrace	2.4-2.5 GHz	5 dBi	3 ft.	N-Female
IB2450-RT36	2.4 GHz Indoor Terrace	2.4-2.5 GHz	5 dBi	3ft.	RP-TNC



Terrace™

- Bi-directional pattern provides optimal corridor & hallway coverage
- 2.4 and 5 GHz versions available
- Supplied with standard wall-mount kit

Model	Description	Frequency	Gain	Cable Length	Connector
2.4 GHz Terrace™ Diversity (cables exit backplate)					
IDD2450-NF12	2.4 GHz Terrace Diversity	2.4-2.5 GHz	5 dBi	1 ft.	N-Female x 2
IDD2450-NF36	2.4 GHz Terrace Diversity	2.4-2.5 GHz	5 dBi	3 ft.	N-Female x 2
IDD2450-RS12	2.4 GHz Terrace Diversity	2.4-2.5 GHz	5 dBi	1 ft.	RP-SMA x 2
IDO2450-RT07E	2.4 GHz Terrace Diversity, Marine-Rated	2.4-2.5 GHz	5 dBi	7 in.	RP-TNC x 2
IDD2450-RT36	2.4 GHz Terrace Diversity	2.4-2.5 GHz	5 dBi	3 ft.	RP-TNC x 2
2.4 GHz Terrace™ Diversity (cables exit edge/side)					
IDD2450-RS12E	2.4 GHz Terrace Diversity	2.4-2.5 GHz	5 dBi	1 ft.	RP-SMA x 2
IDD2450-RS36E	2.4 GHz Terrace Diversity	2.4-2.5 GHz	5 dBi	3 ft.	RP-SMA x 2
IDD2450-RT36E	2.4 GHz Terrace Diversity	2.4-2.5 GHz	5 dBi	3 ft.	RP-TNC x 2
5 GHz Terrace™ Diversity					
IDD5250-NF12	5.25 GHz Terrace Diversity	4.9-6.0 GHz	5 dBi	1 ft.	N-Female x 2
IDD5250-NF36	5.25 GHz Terrace Diversity	4.9-6.0 GHz	5 dBi	3 ft.	N-Female x 2
IDD5250-RS12	5.25 GHz Terrace Diversity	4.9-6.0 GHz	5 dBi	1 ft.	RP-SMA x 2
IDD5250-RS36	5.25 GHz Terrace Diversity	4.9-6.0 GHz	5 dBi	3 ft.	RP-SMA x 2
IDD5250-RSRA36	5.25 GHz Terrace Diversity	4.9-6.0 GHz	5 dBi	3 ft.	RP-SMA R.A. x 2
IDD5250-RT12	5.25 GHz Terrace Diversity	4.9-6.0 GHz	5 dBi	3 ft.	RP-TNC x 2
IDD5250-RT36	5.25 GHz Terrace Diversity	4.9-6.0 GHz	5 dBi	3 ft.	RP-TNC x 2
IDD5250-RS36E	5.25 GHz Terrace Diversity	4.9-6.0 GHz	5 dBi	3 ft.	RP-SMA x 2

I ceilings

IFC8519-SF00**	I Ceiling Ceiling Tile Antenna	One 850/1900 MHz Dual-band	3 dBi	none	SMA Female	50W
IFCMULT-SF00**	I Ceiling Ceiling Tile Antenna	One 850-1900 MHz Dual-band One 1900 MHz Two 2.4 GHz	3 dBi	none	SMA Female	50W
IFC2450-SF00**	I Ceiling Ceiling Tile Antenna	Two 2.4 GHz	3 dBi	none	SMA Female	50W
IFE8519-SF00**	I Ceiling Ceiling Tile Antenna	One 850-1900 MHz Dual-band One 1900 MHz	3 dBi	none	SMA Female	50W

Model	Description	Coax Length	Connector(s)
Cable Assemblies			
ICSM-RT36	3' SMA-male / RP-TNC	3 ft.	SMA-Male/RP-TNC
ICSM-RT60	5' SMA-male / RP-TNC	5 ft.	SMA-Male/RP-TNC
ICSM-RB60	5' SMA-male / RP-BNC	5 ft.	SMA-Male/RP-BNC
ICSM-SM60	5' SMA-male / SMA-male	5 ft.	SMA-Male/SMA-Male
ICSM-NM60	5' SMA-male / N-male	5 ft.	SMA-Male/N-Male
ICSM-NF60	5' SMA-male / N-female	5 ft.	SMA-Male/N-Female
ICSM-RN08	8" SMA-male / RP-N-female	8 in.	SMA-Male/RP-N-Female

Mounting Hardware

IMI-02A	2" Indoor Pan/Tilt Mount (for ID1900)
IMI-02B	2" Indoor Pan/Tilt Mount (for ID2450)
IMI-02C	2" Indoor Pan/Tilt Mount (for ID850)
IMI-02D	2" Indoor Pan/Tilt Mount (for IDD5250)
IMI-05A	5" Indoor Pan/Tilt Mount (for ID1900)
IMI-05B	5" Indoor Pan/Tilt Mount (for ID2450, ID5250)
IMI-05C	5" Indoor Pan/Tilt Mount (for ID850)
IMI-05D	5" Indoor Pan/Tilt Mount (for IDD5250)
IMO-05A	5" Outdoor Metal Pan/Tilt Mount N/A N/A N/A (for ID01900, ID02450)
IMO-05B	5" Outdoor Metal Pan/Tilt Mount (for ID0850)
IMP-08A	8" Outdoor Metal Pan/Tilt, Wall/Pole Mount (for ID0850)



Terrace Diversity™

- Multi-port spatial diversity within a single, compact radome
- Bi-directional pattern provides optimal corridor & hallway coverage
- 2.4 and 5 GHz versions available



I Ceiling

- Omnidirectional 850, 1900 and/or 2400 MHz
- Patent-pending design embeds the latest antenna technology into standard Armstrong ceiling panels
- Specifically tuned and tested to perform in suspended panel ceilings

Cable Assemblies

Mounting Hardware

