

# Wireless Antennas, Cables and Accessories



To commit the wireless long distance connectivity, PLANET WireFree provides variety of Antennas, Cables and other Accessories for 2.4GHz and 5GHz band applications where more RF gain power is required to increase converge of the installations in Wireless.

#### ORDERING INFORMATION

#### WLAN 5GHz Antennas

ANT-OM10A 5GHz 10dBi Omni-directional Antenna
ANT-SE17A 5GHz 16.5dBi Sector Antenna

• ANT-FP18A 5GHz 18dBi Flat Panel Antenna

#### WLAN 2.4GHz Antennas

• ANT-OM5 5dBi Desktop Omni-directional Antenna ANT-OM8 8dBi Omni-directional Antenna ANT-OM15 15dBi Omni-directional Antenna ANT-FP18 18dBi Flat-Panel directional Antenna • ANT-SE18 12-18dBi Adjustable Sector Antenna ANT-YG13 13dBi Yagi directional Antenna ANT-YG20 20dBi Yagi directional Antenna ANT-GR21 21dBi Grid Directional Antenna

#### Wireless LAN Cables

## Lightning Arrester

• WL-LTN Lightning Arrester (N male to N female)



## **ANTENNAS**

The Antennas include directional antenna and omni-directional antenna to meet the need of different environments. The Omni-directional antenna is ideal to install in a central base-station in a Point to Multi-point Wireless application. And Directional antennas are designed for long-distance.

### 5GHz Antennas

| Model                 |       | ANT-FP18A                   | ANT-SE17A               | ANT-OM10A              |
|-----------------------|-------|-----------------------------|-------------------------|------------------------|
| Frequency             |       | 4900-5875MHz                | 5150-5875MHz            | 5500-5825MHz           |
| Antenna Type          |       | Uni-directional, Flat panel | Uni-directional, Sector | Omni-directional       |
| Gain (dBi)            |       | 18                          | 16.5                    | 10                     |
| SWR                   |       | <=2.0                       | <=2.0                   | <=2.0                  |
| Beamwidth Degree      | Horz. | 10                          | 120                     | 360                    |
|                       | Vert. | 10                          | 10                      | 6                      |
| Mounting Type         |       | Pole or wall Mount          | Pole or wall Mount      | Pole or wall Mount     |
| Operating Temperature |       | -40 ∼ 70 Degree C           | -40 $\sim$ 70 Degree C  | -40 $\sim$ 70 Degree C |

## 2.4GHz Antennas

| Model                 |       | ANT-GR21               | ANT-FP18                    | ANT-YG20               | ANT-YG13               |
|-----------------------|-------|------------------------|-----------------------------|------------------------|------------------------|
| Frequency             |       | 2400-2485MHz           | 2400-2485MHz                | 2400-2485MHz           | 2400-2485MHz           |
| Antenna Type          |       | Uni-directional, Grid  | Uni-directional, Flat panel | Uni-directional, Yagi  | Uni-directional, Yagi  |
| Gain (dBi)            |       | 21                     | 18                          | 20                     | 13                     |
| SWR                   |       | <=1.5                  | <=1.5                       | <=1.5                  | <=1.5                  |
| Beamwidth Degree      | Horz. | 8                      | 30                          | 20                     | 25                     |
|                       | Vert. | 5                      | 20                          | 15                     | 15                     |
| Mounting Type         |       | Mast Mount             | Wall mount                  | Mast Mount             | Mast Mount             |
| Operating Temperature |       | -40 $\sim$ 70 Degree C | -40 ∼ 70 Degree C           | -40 $\sim$ 70 Degree C | -40 $\sim$ 70 Degree C |

| Model                 |       | ANT-SE18                | ANT-OM15                             | ANT-OM8                              | ANT-OM5                      |
|-----------------------|-------|-------------------------|--------------------------------------|--------------------------------------|------------------------------|
| Frequency             |       | 2400-2485MHz            | 2400-2485MHz                         | 2400-2485MHz                         | 2400-2485MHz                 |
| Antenna Type          |       | Uni-directional, Sector | Omni-directional,<br>General purpose | Omni-directional,<br>General purpose | Omni-directional,<br>Desktop |
| Gain (dBi)            |       | 12-18                   | 15                                   | 8                                    | 5                            |
| SWR                   |       | <=1.5                   | <=1.3                                | <=1.3                                | <=2.0                        |
| Beamwidth Degree      | Horz. | 60~120                  | 360                                  | 360                                  | 360                          |
|                       | Vert. | 10                      | 10                                   | 10                                   | N/A                          |
| Mounting Type         |       | Mast or Wall Mount      | Mast Mount                           | Mast Mount                           | Magnetic bottom              |
| Operating Temperature |       | -40 $\sim$ 70 Degree C  | -40 ∼ 70 Degree C                    | -40 ∼ 70 Degree C                    | -40 ∼ 70 Degree C            |

## LIGHTNING ARRESTER

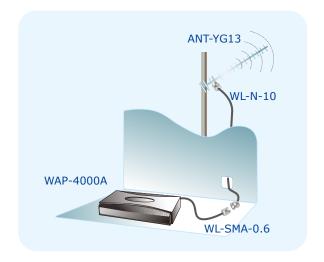
To keep the Wireless device free from lightning induced surges that travel on the coaxial transmission lines, PLANET also includes the arrestor guarding the wireless equipments from damage that could cause your previous network resources break down.

| Туре                      | Gas Discharged             |
|---------------------------|----------------------------|
| Frequency                 | 0~3GHz                     |
| Gain Loss                 | Less than 0.25dB on 2.4GHz |
| Maximum Withstand Current | 10KA                       |
| Connector                 | Type N male to N female    |



## CABLES

To commit the flexibility, the series of Wireless Accessories cables make the connection varies for the needs. With low loss, weatherproof and phase-stability coaxial cables, the cable's distance can be found is from 0.6 meters up to 10 meters (0.6m+ 10m). Those cables feature 50ohm impedance for connecting between Access Point like WAP-1963, WAP-4000 and antenna like ANT-OM8.



#### Cables

| Model            | WL-MMC                | WL-SMA-0.6           | WL-SMA-6             |
|------------------|-----------------------|----------------------|----------------------|
| Side A           | Reverse MMCX (female) | Reverse SMA (female) | Reverse SMA (female) |
| Side B           | Reverse SMA (male)    | N-type (male)        | N-type (male)        |
| Length           | 0.3m                  | 0.6m                 | 6m                   |
| dB loss @ 2.4GHz | 0.7dB                 | 0.5dB                | 3.5dB                |

| Model            | WL-N-10         | WL-NM-0.6     | WL-N-0.6        |
|------------------|-----------------|---------------|-----------------|
| Side A           | N-type (female) | N-type (male) | N-type (female) |
| Side B           | N-type (male)   | N-type (male) | N-type (male)   |
| Length           | 10m             | 0.6m          | 0.6m            |
| dB loss @ 2.4GHz | 2.4dB           | 1.3dB         | 1.3dB           |