Viasat Products Manual – ODU

Summary

The following information discusses the Viasat components used in providing Internet service.

This Job Aid covers:

Outdoor Unit

This job aid supports all audiences.

Outdoor Unit

The Outdoor Unit (ODU) is located outside the customer's home or facility.

The Ka Antenna receives and transmits the Radio Frequency (RF) signals from and to the satellite, while supporting the connections to the Indoor Unit (IDU) via Transmit and Receive cables.

ODU Versions

There are four versions of the ODU Unit:

- **Viasat**
  - **VS1300 with pTRIA**
- **Exede**
  - **VS1300**
  - **VS1200**
  - **VS1101**
  - **VS1100 version**
- **WildBlue**
  - **2009 version**

- **2005 version**

Exede-VS1300

The VS1300 has the same components to the previous models, but with additional design enhancements. For example:

- The single boom arm is shorter, more narrow, and will allow the TRIA cables to be threaded inside the arm
- The new pTRIA does not require a bracket. The boom arm attaches directly to the base of the pTRIA unit

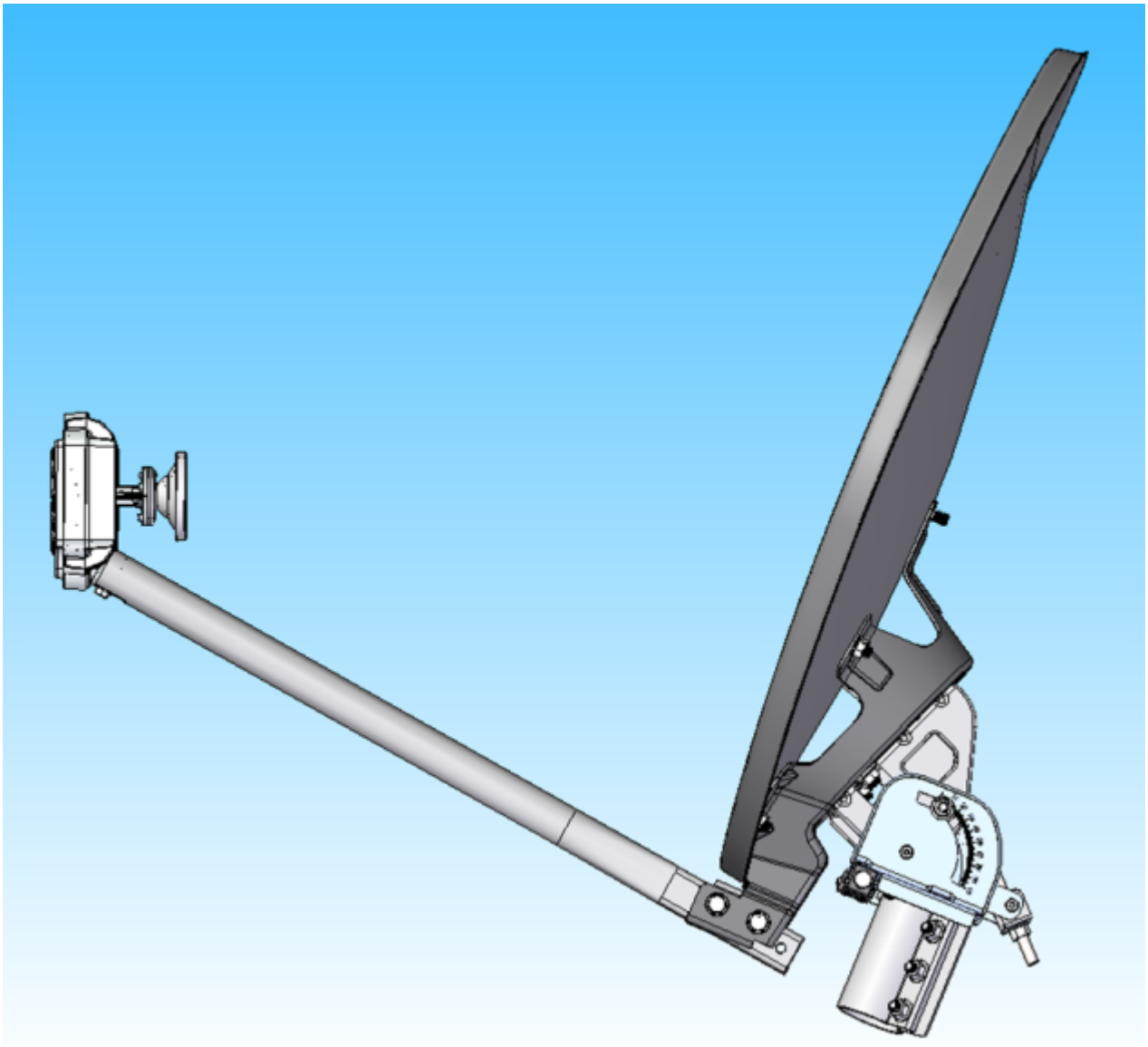
The back bracket assembly is stronger, will last longer, and will reduce thinning of the material over time

Exede-VS1200/VS1300

The VS1300 has the same components to the previous models, but with additional design enhancements. For example:

- The single boom arm is shorter, more narrow, and will allow the TRIA cables to be threaded inside the arm
- The new eTRIA is lighter, smaller, and does not require a bracket. The boom arm attaches directly to the base of the eTRIA unit

The back bracket assembly is stronger, will last longer, and will reduce thinning of the material over time



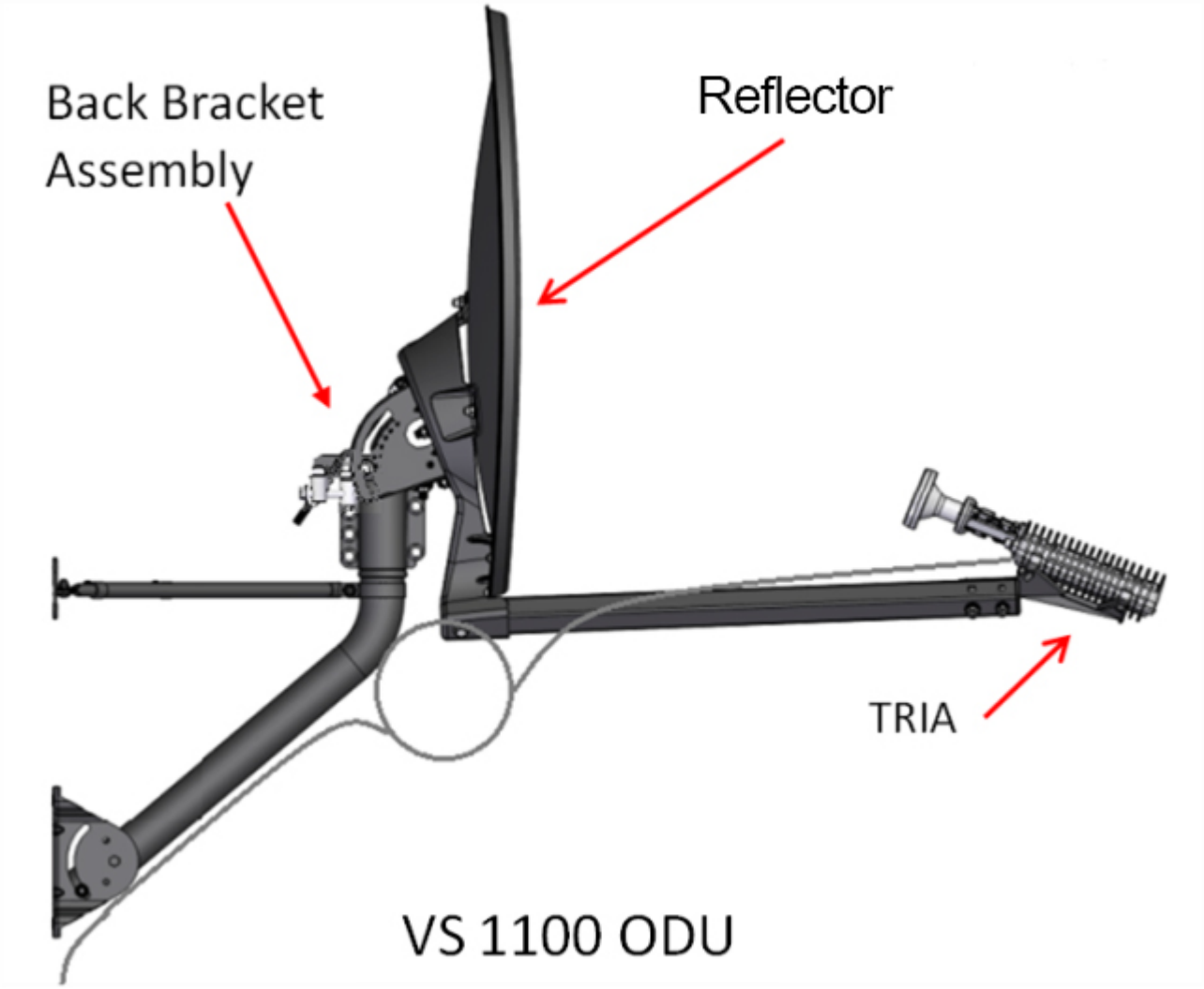
Exede-VS1100/VS1101

The VS1100/VS1101 ODUs have some significant differences from the previous ODU models. These models have four main components:

- Reflector
- Back Bracket Assembly
- TRIA
- Azimuth/Elevation Assembly (AZ/EL)
    - VS1100: Top Pole mount AZ/EL
    - VS1101: Mid-Pole Mount AZ/EL
- Single or dual boom arms

Note: Not all markets carry both the VS 1100 and VS1101 models

Pointing and peaking these models use the software-driven Point and Peak Process provided with the SurfBeam 2 Modem. This process requires no pointing tools, but does require a Technician Laptop or other computer.

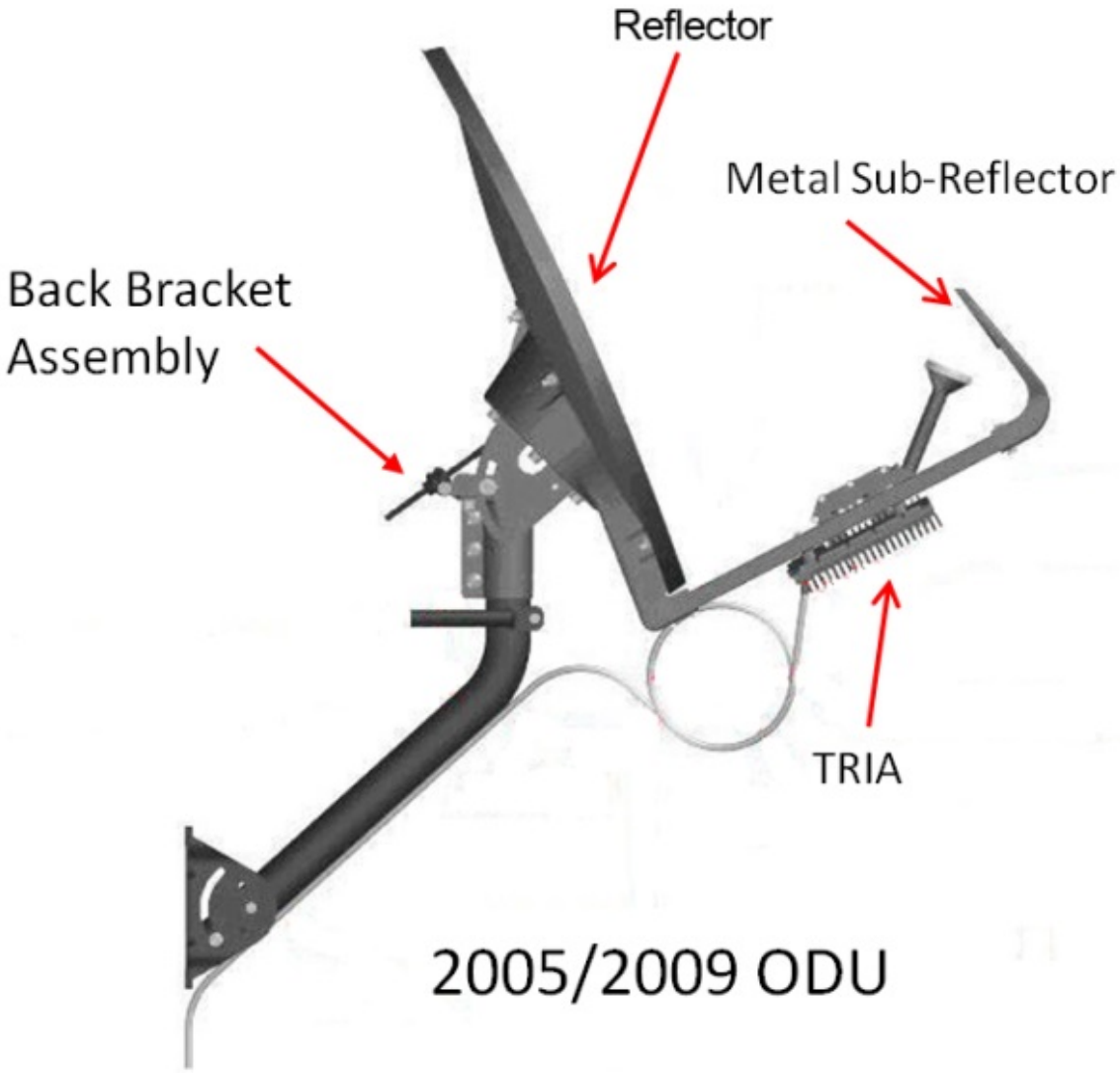


WildBlue-WB2005/WB2009 ODU

The 2005/2009 Ka Antenna consists of four main components:

- Reflector
- Back Bracket Assembly
- Sub-Reflector
- TRIA
- Azimuth/Elevation Assembly (AZ/EL)

Pointing and peaking these models requires the use of a Satellite Signal Level Meter (SSLM) and an Antenna Pointing Aid (APA).


Reflector
Metal Sub-Reflector
Back Bracket
Assembly
TRIA
2005/2009 ODU