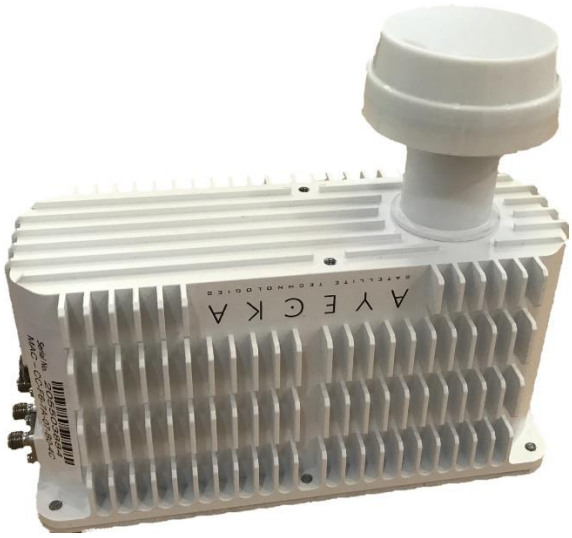
AYECKA
SATELLITE TECHNOLOGIES

UDC - Outdoor Satellite Transponder Simulator

All outdoor, small form factor, low power, satellite transponder simulator, with an installation kit.

- Ku band frequencies: 10.7-12.75 and 13.75 to 14.5 GHz
- ±30° coverage angle
- Independent operation
- Operation with HUB
- Operation with internal signal generation and reception



Typical applications

The transponder simulator is typically used to simulate a satellite, without the need to coordinate real satellite capacity. The following are typical use cases:

- Testing of SOTM (SatCom On the Move) terminals, prior to deployment
- Testing of Airborne systems while in the Hanger.
- RND tests of satellite terminals
- LEO satellite simulation, by deployment of the transponder on a Drone.
- Production line satellite simulation for VSAT terminals.

Product Specifications

Data and management	Ethernet ports: 10/100/1000, MIL-STD Connector
DC Power	12VDC 1.3A, MIL-STD Connector
L-Band (RX) - SMA	L-band: 950 – 2150 MHz
L-Band (TX) - SMA Max Output power: Gain Control: Frequency resolution:	L-band: 950 – 2150 MHz 0 dBm 20 dB 1 MHz
Ku-band (RX) freq.	13.75 – 14.5GHz
Ku-band (TX) freq.	10.7 – 12.75 GHz
LO frequency resolution	1 MHZ
Ku band (Rx) NF	8dB at maximum gain, 40dB at minimum gain
Ku band (TX) power	0 to -20 dBm
Ku band interface	Feed horn
Weight	1.2 Kg

Ordering information

AYECKA part number	Product name	Description
AY5001	UDC Ku	Ku/Ku UDC Transponder