



## uNITA 74 cm Ka-Band Fly-away Terminal

The uNITA is a lightweight and compact Ka-Band Fly-away terminal for satellite communication. It is especially developed for IP data communication over satellite including video-audio delivery.

For industries such as SNG, GSM Backhaul, CCTV, Disaster Management, Oil & Gas Exploration, Military

### EASE OF INTEGRATION

The system can be fitted on standard vehicle load bars. Only two cables running from roof top to the control cabin enables easy integration.

### Key Features:

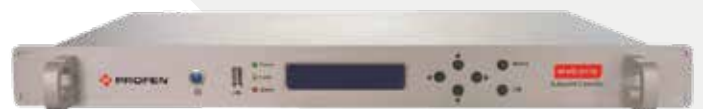
- Single-Piece Offset, Galvanized Steel with Powder Paint Reflector
- Acquires Satellite Within 3 Minutes
- Feed Boom can Support up to 5 KG RF (Feed, Buc, LNB)
- 2 Year Warranty
- Motorized Azimuth and Elevation Built-In Integrated Antenna Controller

Communications, Backup Communications, uNITA is your best choice.

It has a fully motorized offset Antenna with a 78 cm reflector and prime focus feed-horn system housed in a cowling for better vehicle driving performance.

### EASE OF OPERATION

Operates with standard Ka-Band modems. Control and monitoring over PC Application, Web Interface.



PROFEN designs and manufactures SNG systems for digital TV and data transmission systems. Mobile Antenna Systems are designed using advanced technology.

## ELECTRICAL PROPERTIES

### Antenna Size

74cm Elliptical Antenna, offset feed

### Operating Frequency (GHz)

Receive  
18.3 - 20.20 GHz

Transmit  
28.3 - 30.00 GHz

### Midband Gain (dBi $\pm$ .2dB)

Receive  
41.60 dBi

Transmit  
45 dBi

### Antenna Noise Temperature

20° elevation  
113 K

### Power Handling

50 W



3 pieces carbon-fiber reflector

## RF INTERFACE

### Radio Mounting

Feed Arm

### Coaxial

2 x RG6U BUC / LNB to Base Con.

## CONTROL & CABLING

### Control Cables

Standard  
10 m Ext. Cable

Optional  
Other lengths are available

## MOTORS

### Electrical Interface

24 VDC 5 Amp (Max.)

### M & C

Over web interface

## ENVIRONMENTAL PROPERTIES

### Operational

Wind  
70 km / h

Temperature  
-15°C to 50°C

### Survival

Wind Deployed  
100 km / h

Wind Stowed  
200 km / h

Temperature  
-40°C to 65°C

## MECHANICAL PROPERTIES

### Mounting Plate

35x104x35 cm (WxLxH)

### Case Dimension

41x108x39 cm (WxLxH)

### Deployed Height

110 cm

### Max. Weight

45 kg

### Reflector Material

Galvanized Steel with Powder Paint

### Platform Geometry

Elevation over Azimuth

### Deployment Sensors

GPS antenna  
Compass  $\pm$  2°  
Tilt sensor  $\pm$  0.1°

### Azimuth

$\pm$  185°

### Elevation

0 - 80°

### Elevation Deploy Speed

Variable, 10°/sec

### Azimuth Deploy Speed

Variable, 18°/sec