The **ACFLY-Ku-MENOS-V3** is comprised of an ODU (1.2m Ku-Band light antenna, RF chain with 10W BUC and LNB) and a communications and video case (with integrated M1 modem, compact MPEG4 AVC encoder appliance, VoIP phone, Industrial Switch and a rugged laptop dedicated to the MMX MENOS scheduler).

The integrated FNG terminal can be used within the MENOS satellite network environment, intended for the user to contribute **Fast News Gathering (FNG) content in a fast, reliable and efficient way**. It also provides high-speed Internet, VPN and VOIP services independently of the availability of terrestrial links.

The system integrates the MENOS Multimedia Exchange software (MMX), which manages the live FNG quality video signals. The MMX exchanges FNG video content with the MMX of the MENOS HUB, which then distributes it to the appropriate receivers. The ACFLY-Ku-MENOS-V3 is connected to the MENOS HUB via a MF-TDMS broadband subsystem for data, voice communication and FNG video.

The **ACFLY-Ku-MENOS-V3** is a **compact, light, quick assembly and cost-effective solution**. The 1.2m flyaway antenna is packaged in **robust portable weatherproof cases**. The system is designed for Road/Air/Sea transportation, ready to work under wind loading conditions and on a wide temperature range.

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**APPLICATIONS**

- Fast news gathering video contributions
- IP Access Services
- VoIP collaboration channels

**SUPPORTED DEVICES**

- Sat3Play MF-TDMA IP Broadband Access, providing high-speed IP connection with built in acceleration
- Support for 1 video FNG contribution
- Integrated MMX GUI and MMX SIT software providing booking and management of FNG sessions
- Fully integrated VoIP services
- Integrated Quality of Service (QoS), prioritizing VoIP and video streaming over best effort IP traffic

**TECHNICAL ODU SPECIFICATIONS**

**ODU content:**

- 1.2m Ku Band Fly-Away Antenna
- 10 W Ku Band BUC
- Ku Band LNB
- Antenna enhanced with electronic compass, GPS receiver and inclinometer, together with an aided pointing GUI for assistance during antenna pointing operation

**Antenna and RF Specifications (I):**

- **Reflector**
  - 1.2 Meter, 6 segments, Carbon Fibre
- **Polarization**
  - Linear
- **Transmit Frequency**
  - 13.75 GHz – 14.5 GHz
- **Receive Frequency**
  - 10.7 GHz – 12.75 GHz

**Antenna Gain**

- RX: 41.5 dBi; TX: 42.7 dBi

**Beam width (at 3dBm)**

- RX: 0.95º; TX: 0.82º

**Isolation Tx – Rx**

- ≥85 dB

**Cross Polarization Isolation (on axis)**

- ≥35 dB

**Cross Polarization Isolation (-1dBi)**

- ≥30 dB

**Sidelobe Performance:**

- 1.5°≤θ<20°.................................................................29.25 log θ
- 20°≤θ<26.3°..............................................................-3.5
- 26.3°≤θ<48°..............................................................32.25 log θ
- 48°≤θ<180°..............................................................-10 dB (typ.)

**EIRP (System with 10W P1dB SSPA)**

- 53.5 dBW (typ.)

**G/T**

- 20.3 dB/K (@12.75 GHz and 30° Elevation)

**LNB Options:**

<table>
<thead>
<tr>
<th>Option</th>
<th>Frequency band</th>
<th>LO frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>10.7 – 11.8 GHz</td>
<td>9.75 GHz</td>
</tr>
<tr>
<td>High</td>
<td>11.7 – 12.75 GHz</td>
<td>10.6 GHz</td>
</tr>
</tbody>
</table>

**Mechanical specifications:**

- **Material**
  - Carbon Fiber (6 segments)
- **Mount Geometry**
  - Elevation over Azimuth
- **Polarization**
  - Rotation of Feed
- **Azimuth travel**
  - 360º
- **Elevation travel**
  - 25º to 80º
- **Polarization travel**
  - ±60º Continuous
- **Drive Move**
  - Manual (Sat3Play Point & Play assistance) *

*Optional pointing aid including software and GPS receiver
TERMINAL INTERFACES

- 1 digital SDI input (digital video + embedded audio)
- 1 analog CVBS input (PAL/NTSC)
- 2 power connectors (AC IN and 5VDC)
- 2 XLR female audio inputs
- 3 RJ45 Ethernet interface for VoIP, CPE LAN and Managing

POWER SUPPLY

AC input voltage ....................... 110/220 VAC (47-63 Hz) (DC as option)

PACKING*

Case 1 (weight, dimensions, content)
- 1 Case;
- Weight 22.7 kg;
- LHW < 157 cm
- ACFLY-Ku-IDU and Laptop

Case 2 and 3 (weight, dimensions, content)
- 2 Cases;
- Weight 25 kg (each);
- LHW < 157 cm (each)
- Antenna, Feed, BUC, LNB, cables and phone

* Packing can be modified if required

ENVIRONMENTAL SPECIFICATIONS

Operational Winds ...................... 32 km/h
Survival Winds .......................... 75 km/h
Operating Temperature ................ 0 °C to +50 °C
Non-condensing storage ............. -40 °C to +70 °C up to 95% condensing

OPTIONAL

Additional SW (video edition, etc.) can be integrated upon user request