

# uPak<sup>®</sup> C060QDM

## *Quick Deploy Antenna*



Extremely lightweight and compact – fits into a rucksack or a piece of checked luggage

Easy to deploy and setup - <30 seconds

Provides high bandwidth connection enabling high speed data transmission

Ruggedized and weatherproof to withstand harsh environments

Assisted, fast acquisition via intuitive beacon peaking system and award winning GUI

### Overview

The General Dynamics SATCOM Technologies uPak C060QDM is an extremely lightweight, integrated and compact quick deploy terminal that provides a high bandwidth connection capable of high speed data transmissions. Extremely rugged, portable and fully integrated, C060QDM is the only terminal of its type without any removable parts. The unit can be comfortably carried in a rucksack across rough terrain and checked in as airline baggage.

The C060QDM is exceptionally easy-to-use, has a high gain, is multiband, can acquire and be used on any satellite using its award winning GUI, and can be out of its bag and operating live in three minutes. When it comes to portability, reliability and powerful connectivity the C060QDM is second to none.

### Features

- High performance 60cm folding antenna
- Fully integrated - no removable parts
- Assisted, fast acquisition via intuitive beacon peaking system and award-winning GUI
- IATA compliant - 15kgs / 33.07lbs, sub 62" accumulative dimensions (LxWxH)
- Cartridge Modem system
- Rucksack/bag transportable
- Weatherproof to IP55
- MIL STD 810G compliant
- Ka, Ku and X band
- Skynet approved
- ITAR free

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## Uplink

- **Ka Band**
  - Operating band: Tx Band 29.5-31GHz, Rx Band 19.2-20.2GHz
  - EIRP(SAT)@30.5GHz: 53.5dBW
  - G/T @ 19.7GHz: 15.5dB/K
  - Transmit Gain: 42.5dBi
  - Polarization: RHCP switchable to LHCP (Rx orthogonal to Tx) Linear (Option)
- **Ku Band**
  - Operating band: Tx Band 13.75GHz to 14.5GHz, Rx Band 10.95GHz to 12.75GHz
  - EIRP(SAT)@14.15GHz: 49.5dBW
  - G/T @ 11.85GHz: 14.4dB/K
  - Transmit Gain: 36.4dBi
  - Polarization: Linear (H/V), Rx orthogonal to Tx
- **X Band**
  - Operating band: Tx band 7.9GHz to 8.4GHz, Rx Band 7.25GHz to 7.75GHz
  - EIRP(SAT)@8.15GHz: 44.5dBW
  - G/T @ 7.5GHz: 9.9dB/K
  - Transmit Gain: 32.0dBi
  - Polarization: RHCP switchable to LHCP (Rx orthogonal to Tx)

## Reflector

- **Antenna**
  - 60cm folding parabolic
- **MODEM Options Available**
  - iDirect, Comtech, SkyWAN, Proteus, Gilat SkyEdge2, Paradise, external L-Band interface

## External Interfaces

- **2 x Wired Ethernet**
  - RJ45
- **Mil 188-114A (Modem Specific)**
  - 26W Amphenol 62GB-12E-16-26S
- **L-Band Rx monitor**
  - N-Type
- **L-Band Tx Modem Output**
  - N-Type
- **L-Band Tx Input**
  - N-Type
- **AC Input (90-260V)**
- **DC Input (11-36V)**

## Control

- **Simple Highly intuitive interactive user interface**
  - 3.5" Digital TFT-LCD 640x480 Display
  - Colorful Graphical User Interface
  - Two Button Control
- **Web Browser Setup**

## Power

- **Input Voltage Range**
  - 90 to 260VAC (50/60Hz) or 11 to 36VDC

## Alignment

- **The powerful on board controller with 3.5" digital TFT-LCD color display allows for a highly intuitive, interactive graphical user interface experience to deskill the operation of finding the desired satellite.**
- **On board GPS, compass and inclinometer sensors in combination with information obtained from the integrated Beacon Receiver and/or Modem, presented in a unique way on the display, assists in easy satellite alignment.**
- **Fine adjustment  $\pm 10^\circ$  on all axis**

## Environmental

- **Temperature Range**
  - Operational:  $-20^\circ$  to  $+50^\circ\text{C}$
  - Storage:  $-40^\circ$  to  $+80^\circ\text{C}$
- **Wind Loading**
  - Operational: 31mph (50kph), 43.5mph (70kph) Gusting
  - Survival: 62mph (100kph)
- **IP specification**
  - IP55
- **Humidity (operational):**
  - MIL-STD-810G
- **Altitude, (operational):**
  - 3000m @  $-10^\circ\text{C}$
- **Altitude, (non-operating):**
  - 5000m @  $-30^\circ\text{C}$
- **Shock**
  - MIL-STD-810G
- **Vibration**
  - MIL-STD-810G

## Physical

- **Packaging**
  - Single IATA compliant case
- **Weight**
  - 15kg, 33.07 lbs
- **External dims**
  - 670mm (L) x 350mm (W) x 290mm (H), 26.4" x 13.8" x 11.4"
- **ITAR Free**

