

# uPak<sup>®</sup> C060QDA

## *Fully Automated Quick Deploy Terminal*



Provides a high bandwidth connection capable of high speed data transmissions

Compact size enables easy transportation via a single checked bag on an airline or in a rucksack for remote field operations

Fully automated acquisition

Ruggedized and weatherproof to withstand harsh environments

### **Overview**

The General Dynamics SATCOM Technologies uPak C060QDA is an integrated and compact, fully automated quick deploy terminal that provides a high bandwidth connection capable of high speed data transmissions.

With single button operation the unit can be used by anyone with little or no training. The uPak C060QDA is lightweight and extremely portable, designed to be transported as checked baggage on an airline or in a rucksack for remote field operations. The system offers a high gain, for more throughput and enables C060QDA to transmit in less than optimal conditions.

### **Features**

- High performance 60cm parabolic segmented antenna
- Fully automated acquisition
- Integrated modem
- One box, rucksack or rugged carry case
- Weatherproof to IP65
- MIL STD 810G compliant
- Ka, Ku and X band
- Also available with flat panel antenna
- ITAR free

## Uplink

- **Ka Band**
  - Operating band: Tx 29.5GHz to 31GHz  
Rx 18.7GHz to 21.2GHz
  - Transmit Gain: 42.3dBi
  - EIRP @ 30.0GHz: 53.3dBW
  - G/T @ 19.7GHz: 15.2dBk
  - Polarization: RHCP switchable to LHCP  
(Rx orthogonal to Tx) Linear (Option)
- **Ku Band**
  - Operating band: Tx 13.75GHz to 14.5GHz  
Rx 10.95GHz to 12.75GHz
  - Transmit Gain: 36.2dBi
  - EIRP @ 14.15GHz: 50.2dBW
  - G/T @ 11.85GHz: 14.4dBk
  - Polarization: Linear (H/V), Rx orthogonal to Tx
- **X Band**
  - Operating band: Tx 7.9GHz to 8.4GHz  
Rx 7.25GHz to 7.75GHz
  - Transmit Gain: 31.8dBi
  - EIRP @ 8.15GHz: 44.3dBW
  - G/T @ 7.5GHz: 9.7dBk
  - Polarization: RHCP switchable to LHCP  
(Rx orthogonal to Tx)

## Reflector

- **Antenna**
  - Segmented 60cm parabolic

## Modem

- **Options Available**
  - iDirect
  - Comtech,
  - SkyWAN,
  - Proteus,
  - 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

- **Operating Range**
  - El: 0 to +90°, Az: ± 200°, Pol: ± 95°
- **Terminal User Interface**
  - Simple to operate embedded  
PC based GUI system
- **Satellite Acquisition**
  - Automatic via modem lock and/or  
beacon receiver with manual override
- **Remote Interface**
  - Laptop PC, connected with wired Ethernet

## Power

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

## Alignment

- Control of the antenna is via the on board computer, which provides full auto point, auto acquisition and tracking functionality.
- A simple one-button push will deploy the antenna and it will search and acquire the relevant satellite with no input from the operator.
- Built into the C060QDA is the bespoke software package, designed specifically to ensure pointing and tracking is fast and accurate.

## Environmental

- **Temperature Range**
  - Operational: -20° to +55°C
- **Wind Loading**
  - Operational: 28mph (45kph)
  - Survival: 55mph (90kph)
- **Ingress Protection**
  - IP65
- **Humidity, Shock, Vibration**
  - MIL-STD-810G

## Physical

- **Packaging**
  - Single IATA compliant case
- **Weight**
  - 23kg, 50.7 lbs
- **External dims**
  - 774mm (L) x 470mm (W) x 336mm (H), 30.5" x 18.5" x 13.2"
- **ITAR Free**

## GENERAL DYNAMICS SATCOM Technologies

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