

# 3G Nugget Interface

COFDM – Video, Audio Telemetry and IP Products

**COBHAM**

October 2011 Data Sheet

The most important thing we build is trust



*NUG3G: Nugget 3G Interface*

The Nugget sensor range, operate in a long range MESH and allow users to protect an area of interest by deploying Nuggets in a wide perimeter. Each Nugget contains a PIR, trip wire, vibration and light sensor and can be upgraded with other sensor interfaces if required. The Nugget system typically provides up to 1km wireless range between Nuggets. The NUG3G allows users to monitor the activity on a deployed Nugget MESH even more remotely using the public 3G/2G networks. Therefore the NUG3G could enable the monitoring of a deployed Nugget sensor network anywhere in the world.

The NUG3G unit is employed to provide a 3G/2G interface to the Cobham range of Nugget sensors. The rugged NUG3G unit contains its own battery and can be deployed alongside Nugget sensors on long duration missions.

The NUG3G interfaces to any Nugget in the MESH using a dedicated cable. Any sensor activity data is then sent over the 3G/2G network and can be displayed on the Cobham Mission Commander software platform. Data is fully encrypted to maintain privacy.

To extend battery life the NUG3G can be configured to respond instantly to activity on the MESH, or instead to only report back at preset intervals, the longer the interval the longer the battery will last. For very long duration missions an external battery can be connected.

The NUG3G also provides a return link back into the Nugget MESH allowing users to clear down sensor history, or to activate switches etc on the sensor network.

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## Specification:

### Input

DC In	8 pin Binder 9992260008 DC power
Video and Audio	Binder Female 9991340212 Nugget clock, data and interrupt
GPS	SMA Female

### Output

RF Out	SMA Female (optional)
3G Out	SMA Female

### Antennae

RF Out Antenna	2dBi Omni
Frequency	805-960, 1710-2170MHz
3G Antenna	Quick deploy antenna on 3m cable
GPS	Quick deploy antenna on 3m cable

### 3G RF

SIM	Single SIM
Modulation	HSDPA (3G) High Speed Downlink Pack Access) to 384kb/s uplink WCDMA (3G) Wideband Coded Division Multiple Access to 384kb/s uplink EDGE(3G) Enhanced Data Rates for GSM Evolution to 384kb/s uplink GPRS(2.5G) General Packet Radio Service) to 42.8b/s uplink

### Encryption

Type	AES128 or AES256 (optional)
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### Control

Remote	RS232 control from PC application Over 3G network – full control available
Local	Config switch, ON/OFF,

### Physical

Size	L 112mm, W 42mm H 54mm
Weight	500g
Mounting	Magnetic strip, tripod and screw fixing
Temperature	-20 to +60 deg C
Sealing	IP66
Voltage	9-16V
Consumed	2W active (reduces based on software setting)

## Product Code

NUG3G 3G Nugget Interface

## Product Code Includes following Kit

- NUG 3G Unit
- AC mains adaptor.
- Control break out.
- Nuggett Interface Cable
- Peli-case.
- 3G and GPS Antenna

## Accessory Options

Nugget system – see Nugget Datasheet

Products are available to security users only, in licensed frequency bands. These products are not approved for use by unlicensed users.

Commercial products are available to unlicensed users - contact Cobham Tactical Communications and Surveillance direct for details.

All product specifications are subject to change without notice. Cobham Tactical Communications and Surveillance will not be liable for technical or editorial errors or omissions.

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