

# Critical Communications Kit CCK-3000 Series

*Our Critical Communication Kits have been designed by our experts with over 30 years of hands-on experience in disaster response and recovery. All items in the kit have been chosen based on actual real-world usage in the field.*

## Overview

The Critical Communications Kit (CCK-3000 series) is designed for large response teams that need to establish data, video, and phone communications in a disrupted environment. The kit features connectivity for multiple users via Wi-Fi, a removable remote antenna with a pole/rail mount, hot swappable batteries, and multiple power options including 110-volt, 12-volt, solar, and international adapters. It is packaged with all the equipment to respond in a ruggedized checkable/shippable hard case with a soft mission bag for expedient field movement of the terminal.

## Key Features & Benefits

- **Global Network Coverage:** Operates on the Inmarsat I-4 Satellite Constellation
- **Compact & Portable with Built-In Wi-Fi:** Easy to set-up and operate, includes smartphone app (iOS and Android).
- **Versatile Power Options:** AC/DC power cables, external antenna, spare battery, solar panel.
- **Hot Swappable Battery Capable:** Custom foam case, shippable, and meets airline carry-on requirements.
- **Meets FEMA USAR Team Kit requirements:** Long battery life allows up to 4-6 hour talk time and up to 30 hour standby
- **Highest Speeds Available:** Solar panel power bank allows kit to be 100% off-grid.



## Applications

- **Government/Military:** Federal, state, and local applications including DoD, park rangers, and border protection.
- **Humanitarian Assistance/Disaster Response Agencies (HA/DR):** DHS, FEMA, HHS, and NGO's
- **Satellite News Gathering (SNG)**



# CCK-3000 Series

## Global Coverage

The CCK-3000 utilizes the Inmarsat Broadband Global Area Network (BGAN). It operates on the I-4 geostationary satellite constellation. You can depend on having worldwide coverage, except in the extreme polar regions.

## High Throughput

The CCK-3000 supports streaming rates over 600 kbps out of the box, when using new high data rate streaming. With the EXPLORER 710, you can leverage the fastest on-demand video streaming via satellite with guaranteed QoS to enhance the quality of live broadcasts and remote communication.

## Unique Video Possibilities

The CCK-3000 has the ability to bond the signals from multiple EXPLORER 710 terminals via Ethernet to achieve IP streaming rates of 1 mpbs or even higher - close to standard definition broadcast quality.

## Dedicated Ethernet Ports

The CCK-3000 can provide data via two dedicated ethernet ports (RJ-45) so higher security can be maintained using a wired network configuration rather than using Wi-Fi. The Wi-Fi can also be disabled for increased security. An Analog phone (RJ-11) jack for voice/fax is also provided.

## Built-in Wi-Fi & Optional LTE

The CCK-3000 features built in Wi-Fi for connection to devices. The EXPLORER Connect App allows access to control your BGAN and pointing assistance. The app is compatible with iOS and Android. The optional EXPLORER LTE Modem enables you to connect to local cellular networks and use the EXPLORER 710 as wireless router for all your devices.

## Easy to Use & Point

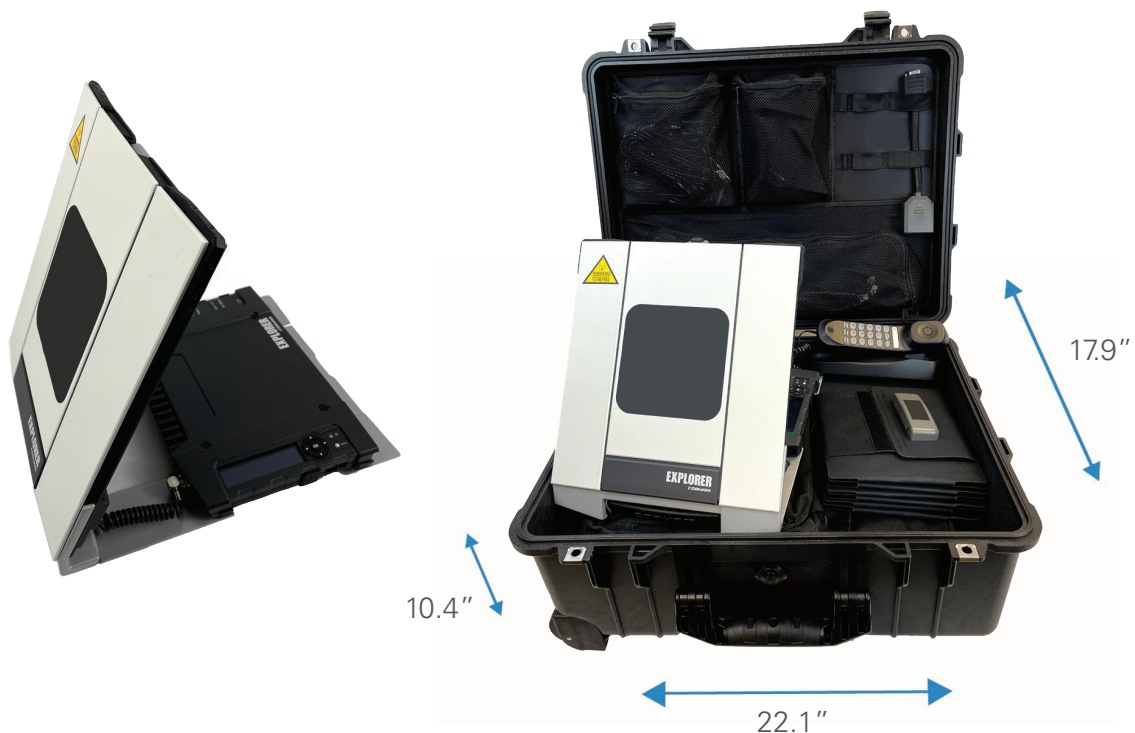
To use the CCK-3000 just connect your smartphone, tablet or laptop, point the EXPLORER 710 toward the satellite using the built-in compass and sound indicator to ensure quick and easy connection to the BGAN network.

## Solar Panel

The CCK-3000 series comes with a 100W foldable solar panel. It comes with a USB 5V output and 19V DC output to ensure power for a variety of devices and to fully power the EXPLORER 710.

## Hand-Curated Parts

The CCK-3000 series kit has everything you need neatly stored in a transportable carrying case. The compact case can be carried on any major international or domestic flight or shipped in its own case without any additional packing required.



# CCK-3000 Series

The CCK-3000 has been handcrafted by our professionals who have over 30 years of experience and participated in 100+ disaster response missions. Our team in the industry has meticulously created this kit to make sure minute detail was considered. This kit is modeled after FEMA USAR cache requirements and is designed with field experience every step of the way. Knight Sky has already delivered many of these kits to US Government responders.

The CCK-3000 is a team response kit with everything needed to set up an emergency communications site with data and phone for initial remote headquarters. Cables, remote antenna mounts, adapters, power options, solar panel, and Wi-Fi antennas are all included in the kit. The kit includes a field response bag and a ruggedized waterproof shipping/checkable carrying case that includes all the parts for a successful mission.

## Explorer Tactical Bag Contents

- Cobham EXPLORER 710 terminal TT-3720B-
- Ethernet/ISDN cable, 6.5ft
- Getting Started Guide
- AC/DC adapter with EU and US power cord
- Adapter - USB to Ethernet
- USB to USB cable

## POTS Telephone Contents

- Telephone, Plain Old Telephone Set (POTS)
- Telephone line cord, RJ11 to RJ11 (6')
- Telephone line cord, RJ11 to RJ11 (100')
- Telephone handset cord, coiled (25')

## Cable Contents

- Cable, RF jumper LMR-400, N male to RP-SMA male (2')
- Cable, RF extension RG174/U RP-SMA female to RP-SMA female
- Cable, RF extension RG223/U TNC male to TNC male (25')
- Cable, RF extension RG223/U TNC male to TNC male (45')

## Solar Panel & Accessories

- Solar Panel, Foldable 100 Watt (folded, in ruggedized case)
- DC 19V Step-down module (3A)
- Extension wire, DC to DC
- Adapter wire with battery clamps
- Adapter wire with cigarette lighter plug (male)
- Adapter wire with USB to female connector cable
- Adapter wire with aviation plug
- Adapter wire with MC4 connector
- 11-in-1 Misc. Power Connectors
- Adapter wire with cigarette lighter plug (male)
- Adapter wire with cigarette lighter plug (female)
- Adapter wire with battery clamps
- Adapter wire with barrel plug
- Adapter wire with charging indicator

## CCK-3000 RF Adapter Kit

- Adapter, TNC male to TNC female (right angle)
- Adapter, RP-SMA male to TNC female
- Adapter, TNC female to TNC female
- Adapter, TNC male to N female
- Adapter, TNC male to N female (right angle)
- Adapter, TNC female to N female
- Adapter, RP-SMA male to SMA female

## Miscellaneous

- Cobham Explorer 710 battery hot-swap cable
- Antenna, Wi-Fi 12db gain
- Cobham Explorer 710 Spare Battery (Li-Ion 5700mAh 63Wh)

## Power adapter kit (worldwide) Contents Below:

- Power Adapter, North America, South America, Caribbean, Japan
- Power Adapter, Most of EU
- Power Adapter, EU, Middle East/Asia, parts of Africa, Caribbean
- Power Adapter, UK/IRL, Africa, Hong Kong, Singapore
- Power Adapter, Australia, NZ, Fiji, China

# CCK-3000 Series

## Complete Kit Specifications

Dimensions	22.1" L x 17.9" W x 10.4" H (Exterior Dimensions)
Weight	43 lbs

Comprehensive quick start guide

## 710 Terminal Specifications

### Capabilities

Data	Standard: up to 464 kbps Streaming: 32, 64 & 128 kbps
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Voice	Standard: 4kbps Streaming: 3.1 kHz audio, 64 kbps
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### Interface & Frequencies

1518.0 - 1525.MHz (Rx) (EMEA)

1525.0 - 1559.0MHZ (Rx)

1626.5 - 1660.5 MHz (Tx) (EMEA)

### EIRP

20dBW + 1dB

### Global Services

Voice	4kbps AMBE +2
Premium Voice	3.1 kHz audio, 64kbps
Standard IP	Up to 492 kbps
Streaming IP	32, 64, 128 kbps (256 kbps & BGAN X-Stream)
High Data Rate Streaming	Min 600 kbps Min. 300 kbps (half-channel HDR)
ISDN	UDI 64 kbps / RDI 56 kbps
SMS	Not supported

### Power

DC Input Range - Input: 10-32 VDC

Power Consumption: Intelligent Power Management 65W (Max)

AC/DC Power Supply:	
Input	100-240VAC, 47-63Hz 65W
Output	19VDC
Connector Type	8.2/18 ft power jack

Battery: Lithium Ion, rechargeable	
Stand-by time	24 hours
Transmit time, max	2h30m @ 144 kbps
Receive time, max	3h30m @ 492 kbps

### Basics

Dimensions	13.07" L x 10.98" W x 2.13" H
Weight	7.7 lbs (total) Antenna: 4.2lbs Transceiver (incl battery): 3.5lbs

### Environmental Conditions

Relative Humidity	95% non-condensing at +40°C/+104°F
Water and Dust	Transceiver: IP52 / Antenna: IP66
Temperature	-13°F to +131°F (Operational) -40°F to +176°F (Storage)
Battery Storage Temperature	-4°F to +68°F

### Interfaces

1 x Analog RJ-11 phone fax Interfaces

2 x LAN (RJ-45) interface	
Power over Ethernet	PoE Cl. 2 on one RJ-45 interface
Max. Cable Length:	328 ft (cat5 UTP)

1 x USB host Interface  
2.0 (host), charging up to 2A

1 x ISDN Interface	
Connector Type	RJ-45
Max. Units per Port	8, max. total power supplied 1W

1 x Transceiver / Antenna Interface	
Connector Type	TNC-TNC
Max. Cable loss	1.4 / 20dB @ 1.5GHz

1 x BGAN SIM-Card Slots

WLAN Access Point Standard	IEEE 802.11 b/g
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### User Interfaces

User Interface: PMPLED Display, 5 navigation keys, audio and LCD pointing aids, LED indicator, compass

Languages	UK FR, DE, ES RU, and CN
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Approvals	Inmarsat Class 2 Type Approval at launch CE & FCC at launch. Other approvals TBC
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### Other Features

Built-in SIP server

Embedded Webserver

Advanced router with admin control

Wireless access point

Battery hot-swap and built-in BGAN bonding

Remote activation and remote management

### Other Features

Dimensions	11" x 7.9" x 3" (folded) 52.4" x 21.7" x .1" (expanded)
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Weight	5lbs
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DC	19V/3A
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USB	5V/2A, 9V/2A, 12V/2A output port
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10 panels when fully expanded