

# Ground Control Solutions

Multi-vehicle Ground Control is provided via a rugged and transportable Tactical Deployment Unit (TDU) serving as the heart of any ISR Ground Control Station (GCS). S-PLANE's TDU, combined with our operator stations, provides complete Command and Control (C2) functionality, connectivity between the payload operator in the GCS and the on-board pilot (if the aircraft is manned), and mission and payload situational awareness to the aircraft and payload operators via S-PLANE's ParagonC2 and ParagonISR appliances. ParagonC2 serves as the C2 appliance for mission and aircraft management and facilitates remote piloting.

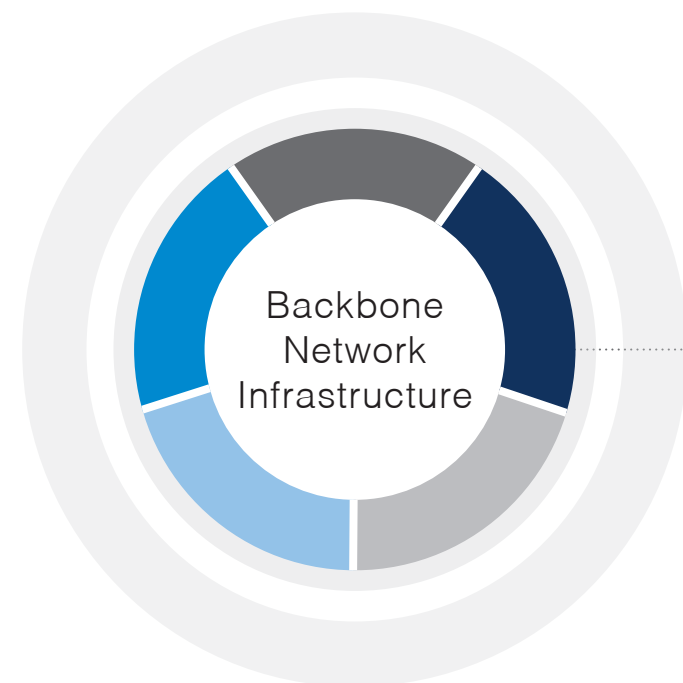


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The S-PLANE Tactical Deployment Unit (TDU) contains all the necessary appliances at the heart of an UAS/OPS Ground Control Station (GCS). A TDU Lite is available to support sophisticated manned aircraft without the need for automation appliances such as ParagonC2.

The TDU protects, regulates and smooths power supply to all internal appliances and supplies back-up power to essential appliances from a managed external battery pack.

The TDU interfaces with S-PLANE and 3rd party C2 and ISR Operator Stations, as well as the TRACKER 100+ for line of sight RF communication.



**Features**

- Command and Control
- Common Operational Picture
- Payload Management
- Payload Data Recording
- Mission Simulation
- Power Management

**Human Machine Interface**

**External Comms/Antennas**

SATCOM 1   SATCOM 2   LOSCOM 1   LOSCOM 2

## 1 Ground Data Terminal (GDT)

- LOSCOM and SatCom link management
- Rugged data storage
- Payload controller interface
- Flip-up HMI
- 2D ParagonC2 backup
- FMS operator interface

## 2 COM Radio Panel

- 2x Air-band Radio Heads
- Aircraft audio panel
- Intercom and radio routing between GCS and Aircraft

## 3 Power Distribution Unit (PDU)

- 28V Power Distribution
- Regulates incoming AC supply to 28VDC
- Merges external backup battery input
- Powers all critical devices on the ground

## 4 ParagonISR Appliance

- Shares 3D ParagonC2 environment
- Mission awareness
- Payload management
- Ruggedised industry-standard HD HMI outputs

## 5 ParagonC2 Appliance

- Multi-vehicle C2
- Mission control
- Payload management
- Remote piloting
- Ruggedised industry-standard HD HMI outputs

## 6 SimulatorX

- Aircraft flight simulator
- Mission simulation
- Runs FCU code (realistic and no aircraft required)
- Ruggedised industry-standard HD HMI outputs

## 7 Uninterrupted Power Supply (UPS)

- Fully managed battery back-up power
- Digital power regulation, protection and smoothing

## ParagonC2

S-PLANE's ParagonC2 is the archetype for modern Command & Control (C2) of OPS and UAS. Simple and intuitive to operate, its 3D graphical interface provides for enhanced situational awareness and straightforward mission, vehicle and payload management and control. Its context sensitive design removes clutter and elegantly extends functionality to multiple vehicles, making it ideal for both tactical deployments and strategic command centres.

With built-in internationalisation, STANAG-4586 interoperability, and availability in both Tactical and Mobile deployments, ParagonC2 provides an unrivalled command and control solution that is both flawless by name and by design.



## ParagonISR

This lite version of ParagonC2 is aimed at effective payload operation. Simple and intuitive to operate, its 3D graphical interface provides for enhanced situational awareness and mission awareness and straightforward payload management, without C2 functionality. With ParagonISR, the C2 operator and the payload operator share a common mission environment for optimal mission execution.

## ParagonCOP

ParagonCOP is available to customers requiring a Common Operating Picture (COP) to be shared between asset operators, commanders and ISR users. With ParagonCOP, ISR data is seamlessly interpreted and shared in real-time and commanders and users are able to guide and task operators to optimise the value of ISR streams provided by your assets. ISR streams from fleets of aircraft and other mobile and static assets are combined to provide a more complete picture of your operational space, ranging from localised activities to regional and world-wide operations.



### Contact Details

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