



The IBUC's Load Switch Advantage

All IBUC Load Switch systems are equipped with cutting-edge intelligent technology and benefits:

- Simplicity using IBUC intelligence - No external logic controller needed
- User-Friendly interface
- Includes 1 extra user interface port for HHT or local terminal control
- Arrives pre-assembled for easy installation
- Independent from LNB switching
- External Led lights on the Load Switch's front panel indicate the Tx Signal direction at any given moment.

ULTIMATE MANAGEMENT & CONTROL FROM YOUR IBUC

- » Local Web Interface «
- » RS485/232 Serial Ports «
- » Handheld Terminal Access «
- » NMS-Friendly SNMP Interface «



Applications

The IBUC Load Switch System allows transmit tests and warm-up procedures to be easily sent to a local load before Tx operations. It also enables quick transmission deployment or intentional interruptions without requiring the IBUC unit to be turned off.

The LSS is an excellent solution for critical links requiring high-quality service management, rapid deployment, and controlled interruptions. It is suitable for commercial applications, government networks, Air Traffic Control networks, and any scenario where communication reliability is paramount.

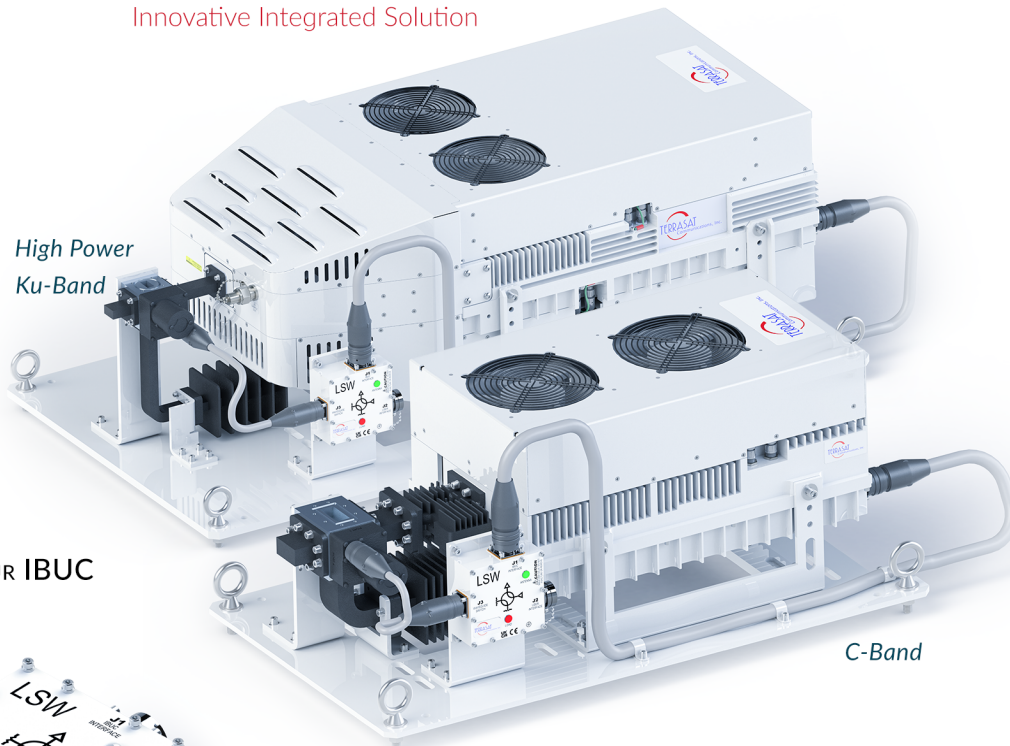
By embedding the Load Switch Controller in the IBUC M&C interface, we created a compact, integrated package tailored for operational efficiency.

The system is provided on a mounting plate and comes with flexible factory-default alarm settings. The alarm thresholds and configurations can be customized during installation according to customer preferences and local conditions.

Preemptive testing of systems before actual operations is crucial, and the IBUC Load Switch System ensures effective conduction of your RF signal to a load, securing operational integrity and compliance. The LSS facilitates antenna commissioning before transmission, acting as a precautionary measure. The transmitter termination ensures safe maintenance and minimizes potential disruptions during deployment. As a result, the LSS ensures smooth operations.

C-Band | X-Band | Ku-Band | Ka-Band IBUC Load Switch Systems

Innovative Integrated Solution



C-Band

3
Year
Warranty

IBUC Load Switch System

Load Switch Interface Module

All IBUCs automatically detect the Load Switch System at startup (if installed).

LED Indicators

Antenna position

Load position

WG Switch Control

Pulse for WG Switch Generated at the IBUCs

Power Supply

Provided by the IBUCs

Monitor & Control

Via IBUC

Ethernet

Via Load Switch Interface Module

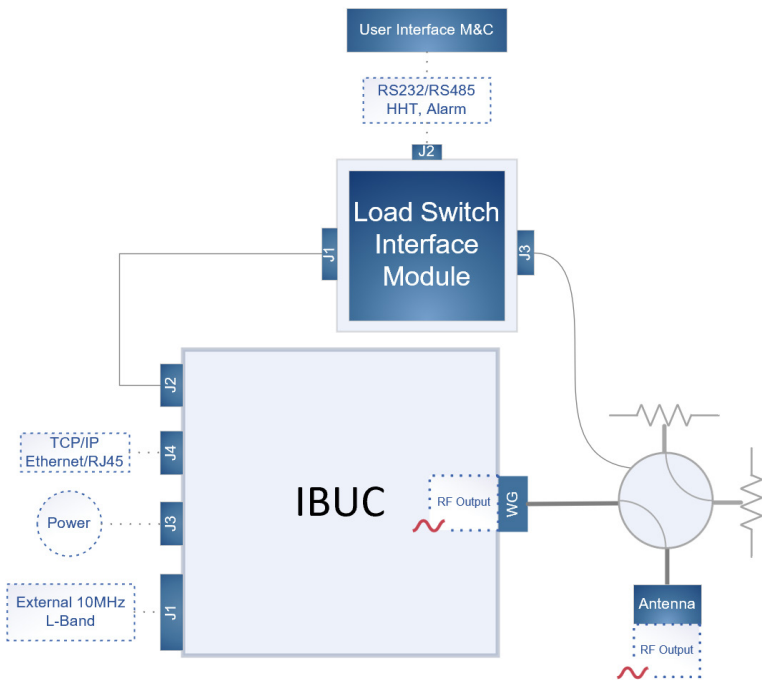
RS232/485

Handheld Terminal

Form-C Relay (Summary Alarm)

Load Switch Connector

User Interface (J2): PT02E-14-19S



WG Switches

Frequency

VSWR

Insertion Loss

Isolation

Switching Time

Waveguide

C-Band

5.09 - 8.2 GHz

1.05:1 Max

0.03 dB Max

70 dB

100 ms Max

WR137

X-Band

7.05 - 10.00 GHz

1.10:1 Max

0.05 dB Max

80dB Min

100 ms Max

WR112

Ku-Band

Frequency

10.0 - 15.0 GHz

VSWR

1.10:1 Max

Insertion Loss

0.05 dB Max

Isolation

75 dB Max

Switching Time

80 ms Max

Waveguide

WR75

Ka-Band

26.5 - 40.0 GHz

1.10:1 Max

0.15 dB Max

60 dB Max

80 ms Max

WR28

Environmental

Operating Temperature -40°C to +60°C

Relative Humidity 100% Condensing

Altitude 10,000 ft (3,000 m) ASL

Mechanical

Systems Ship Assembled & Pre-Tested

System size varies with IBUC model selected. Different power levels and frequency bands will define different plate sizes for Load Switch Systems

Examples:

Load Switch System Size (mounting plate size)	Compatible IBUC models	IBUC unit Size ref.
37x 20 in 940 x 510 mm	400W IBUC R C-Band GaAs 400W IBUC R X-Band GaAs 200W IBUC R Ku-Band GaAs 300W & 400W IBUC G Ku-Band GaN	29 x 15 x 10.1 in 737 x 381 x 257 mm
26 x 15 in 660 x 381 mm	100W to 200W IBUC R C-Band GaAs 200W IBUC G C-Band GaN 100W to 175W IBUC R X-Band GaAs	16.2 x 10 x 7.6 in 411 x 245 x 193 mm

For more product options, consult us at Questions@Terrasatinc.com.

Specifications subject to change without notice.

Updated: March 5th, 2024