

## Advantages

1+1 switching logic and drivers reside in the IBUCs - no external logic controller required.

Web browser interface with embedded web pages for easy setup, monitor, and control.

Cloning function means user sets up primary IBUC as desired and sends command for secondary unit to clone its settings.

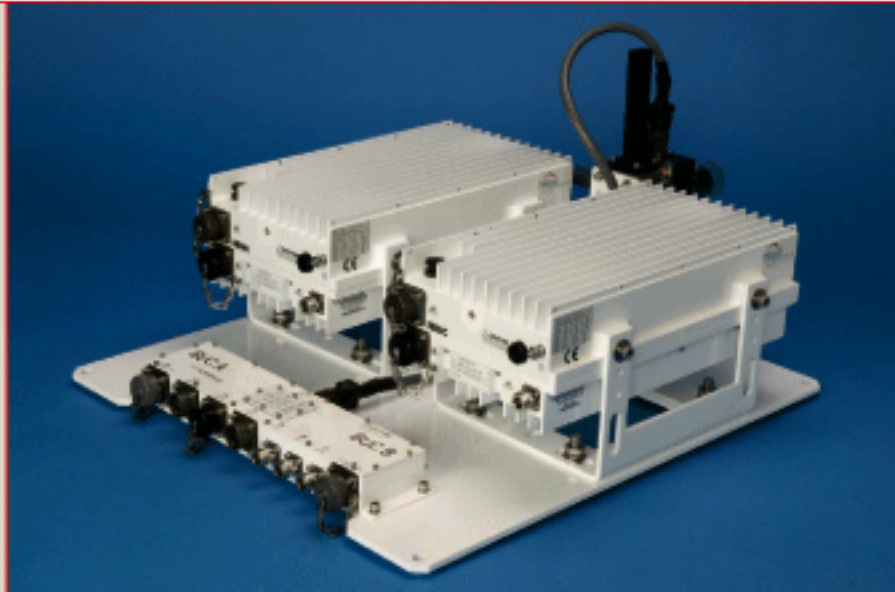
LEDs provide quick visual indication of IBUC condition.

Compact, integrated mounting package.

Access via:

- FSK through TX IFL cable.
- TCP/IP with embedded web pages.
- RS485/232 serial port.
- Handheld Terminal.

Separate outdoor RX 1+1 controller powered by IBUC power supplies is available.



The integration of 1+1 protection was a key design goal in Terrasat's IBUC Intelligent Block Upconverters development. The IBUC redefines 1+1 protection switching. Instead of using a separate switching logic unit with its expense and complexity, Terrasat incorporated the switching logic and drivers into the IBUC itself.

Protected units monitor each other's alarm condition and, through a simple switching junction box, make the decision to switch. The IBUC 1+1 package includes a cloning command to simplify 1+1 setup. Terrasat's 1+1 solution is a complete package with a dual-IBUC mounting bracket for convenient installation.

A 1+1 junction box mounts on the 1+1 mounting plate. Practically a passive unit, the junction box manages the functions of dividing the IF signal and routing signals through an Ethernet hub. It supports interface connectors and includes a bank of LEDs for visual indication of alarm conditions. The user interface is via web browser to embedded web pages, handheld terminal, RS232 or RS485.

A Receive 1+1 system is available with a separate outdoor RX interface box. The receive interface box is powered by the IBUC power supplies and performs all required functions for 1+1 operation of LNB's. No indoor controller is necessary. Monitoring and control is via TCP/IP port on the interface box. The interface box fits the Terrasat universal mounting bracket and the system comes with cables and waveguide switch.



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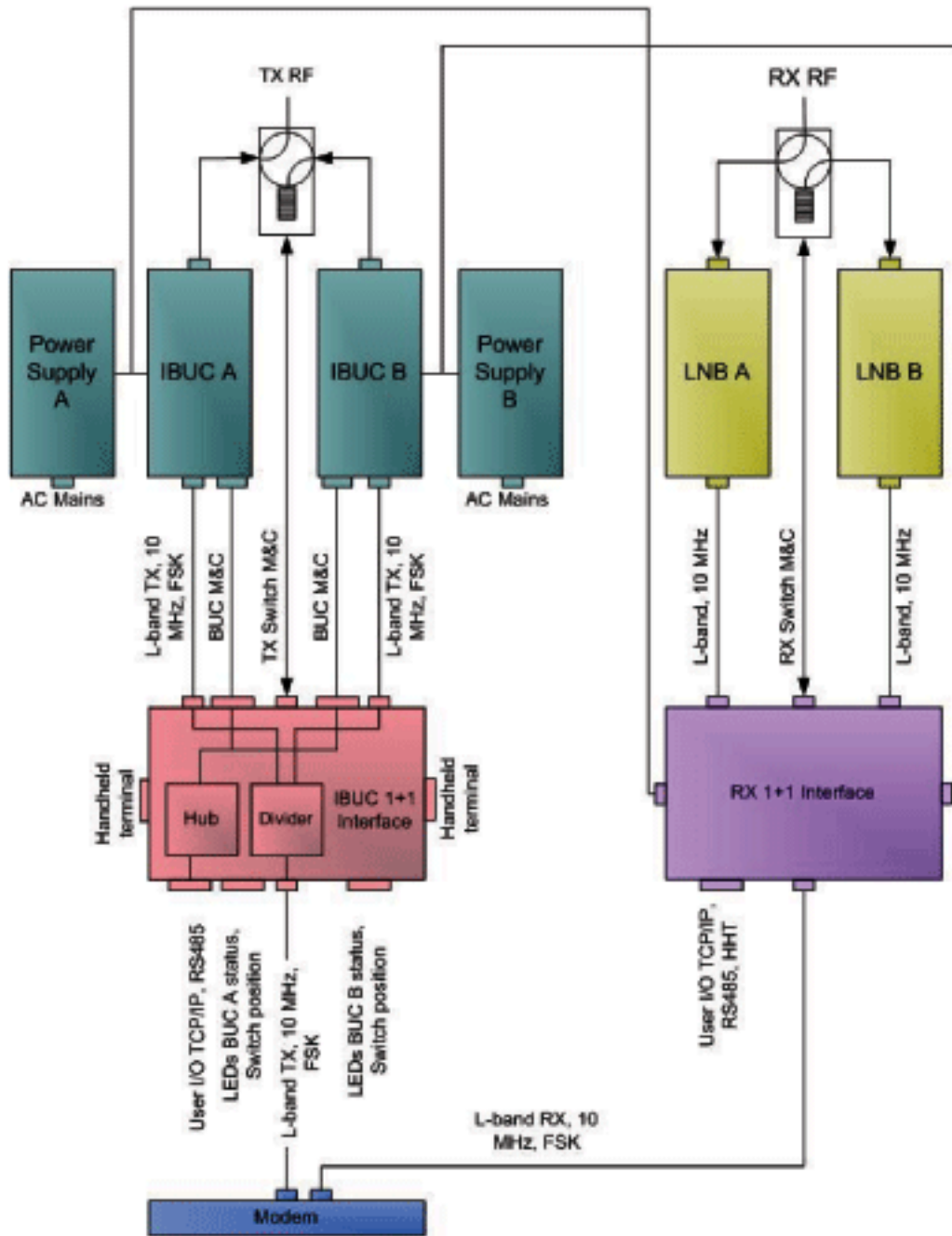
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## IBUC 1+1 System Block Diagram



### 1+1 TX/RX

Specifications are subject to change without notice



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+1 System Data Sheet 8/22/05