The **IBUC TX** Advantage

All IBUC 1:1 Protection systems are equipped with cutting-edge intelligent technology:

- Innovative hot standby simplicity using IBUC intelligence--no external logic controller
- User-configurable alarm thresholds
- Includes Eco-mode option for warm standby, reducing energy consumption
- Arrives pre-assembled for easy installation
- Independent from LNB switching

Ultimate Management & Control

» RS485/232 Serial Ports «

» Handheld Terminal Access «

» NMS-Friendly SNMP Interface «

» Local Web Interface with Side-By-Side Display «

IBUC 1:1 Protection System

Innovative- Integrated Solution.

Rear View

Applications

For critical links where service interruption results in SLA penalties or lost revenue, uplink redundancy is a justified investment. Government networks, Air Traffic Control networks & any situation where communication must get through are candidates for IBUC redundancy.

Terrasat, as an industry innovator, developed the IBUC 1:1 redundancy system. Rather than rely upon earlier technology that used an external, rack-mounted logic controller, Terrasat took advantage of the intelligence in the IBUCs to rethink redundancy. The secondary IBUC continuously monitors the primary &, if an alarm is triggered, the secondary IBUC initiates the switch-over. The result is a compact, integrated package ready to install.

The system on a mounting plate is provided with factory-default alarm settings. Several alarm thresholds can be customized during installation according to the customer's preferences and local conditions. An included feature is Eco-mode. When Eco-mode is selected, the secondary unit is put into a warm standby mode with the M&C and all sensors in operation, but the power removed from the amplifier. In high power systems Eco-mode can deliver a significant savings on the energy bill.

Transmit 1:1 Redundancy System

TX 1:1 Interface Module

L-Band

Frequency Range	950 to 2000 MHz
Insertion Loss	5 dB Max (Includes Split)
Flatness	
Any 36 MHz Band	1 dB p-p Max
Full Band	2 db p-p Max
Input/Output VSWR	1:5:1 Max for N Type
	2.0:1 Max for F-Type
Connectors	N-Type (F), F-Type (F) Optional

10 MHz Reference (from External Mod)

Insertion loss	4 dB Max (Includes Split)

FSK Communication

Frequency Range	580 to 720 kHz
Insertion Loss	5 dB Max (Includes Split)

LED Indicators

Power	
A and B Alarm	
Ethernet Activity	A
	B
	User Interface Ethernet (RJ-45)
	User Interface (Circular Connector)
	AUX Ethernet

A and B Online

WG Switch Control

Pulse for WG Switch Generated at the IBUCs

WG Switches

	C-Band	X-Band
Frequency	5.85 - 8.2 GHz	7.05 - 10.00 GHz
VSWR	1.05:1 Max	1.10:1 Max
Insertion Loss	0.02 dB Max	0.05 dB Max
Isolation	70 dB	80dB Min
Switching Time	100 ms Max	100 ms Max
Waveguide	WR137	WR112

	Ku-Band	Ka-Band
Frequency	10.0 - 15.0 GHz	26.5 - 40.0 GHz
VSWR	1.10:1 Max	1.15:1 Max
Insertion Loss	0.05 dB Max	0.15 dB Max
Isolation	75 dB Max	55 dB Max
Switching Time	80 ms Max	80 ms Max
Waveguide	WR75	WR28

IBUC Power Supply

Provideby the BUCs

Monitor & Control

Ethernet

RS232/485

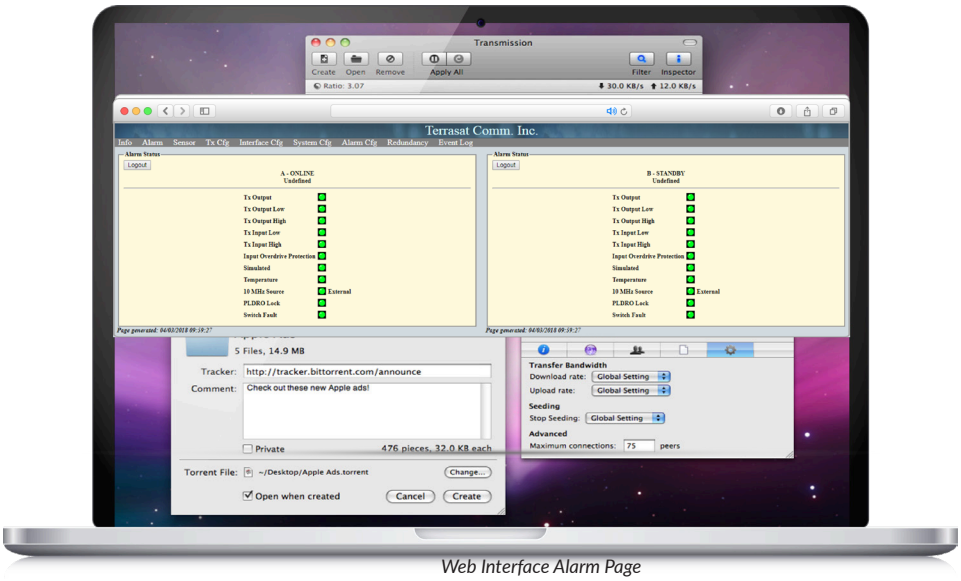
Handheld Terminal	(A and B)
Connectors	RJ-45 (J8 and J10)
	PT02E-14-19S (J9)
Summary Alarm	A and B Form-C Relays

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



Web Interface Alarm Page

Specifications subject to change without notice.

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TERRASAT Communications, Inc. Engineered to Endure

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