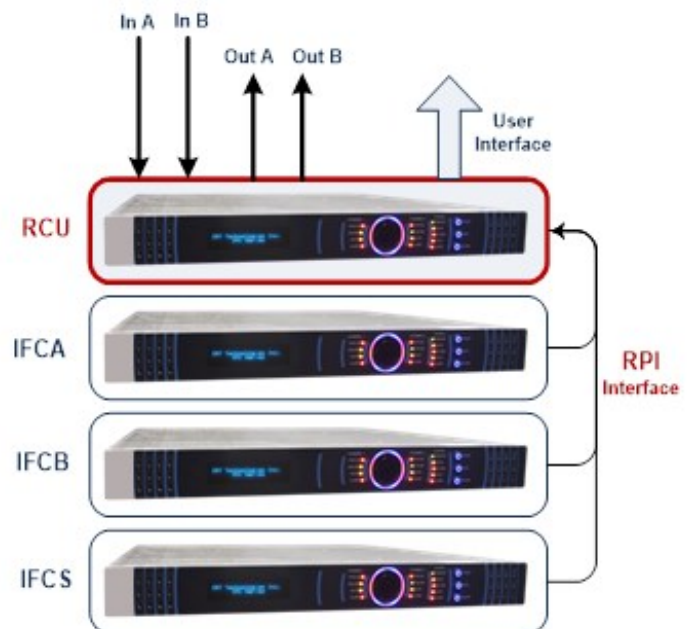


The SpacePath Communications Intelligent Frequency Converters (IFC™) 1:2 Redundant system shape the next-generation satellite transmission with its breakthrough leading edge technology, state of the art design, and unprecedented reliability with 3 years warrant for this product line!

The system consists of three IFC units, featuring best in class RF performance, and a Redundancy Control Unit (RCU), providing users with an extensive set of control and monitoring features via front panel, serial ports EIA232/EIA485 and Ethernet.



Features

- Available in all converter types: 70/140MHz to L-Band Up/Down; 70/140MHz to C/X/Ku RF Up/Down and L-Band to C/X/Ku/Ka RF Up/Down configurations
- Superior RF performance:
 - Phase noise up to 15dB better than IESS308/309
 - In Band Spurious below -60dBc
 - Superior Gain flatness
- State of the art front panel controls with display, navigation wheel, push buttons and LEDs
- Full featured M&C Interface via RS-232 serial console, packet protocol RS-485 and user friendly HTTP based GUI and SNMP:
- Auto Manual, Remote, Manual Override redundancy operation modes
- Manual Switch-Over Button
- Gain equalization feature

IFC™ Series IF to L-Band, IF to RF and RF to L-Band Rack Mount System Specification

IF / RF Features	
Frequency Available	
70MHz IF	70MHz +/-18MHz
140MHz IF	140MHz +/-36MHz
L-Band	950-2100MHz
RF Frequency Options:	
Ka-Band TX	27.5-31GHz
C-Band TX	All sub-bands 5.85-7.025GHz
C-Band RX	3.4-4.3GHz
X-Band TX	7.9-8.4GHz
X-Band RX	7.25-7.75GHz
Ku-Band TX	13.75-14.5GHz
Ku-Band RX	All sub-bands 10.7-12.75GHz
RF/IF parameters to synchronized from A/B to S-unit	
Frequency setting	1kHz step
Attenuation/Gain setting	0.1dB step
LO set	In L-Band to RF Up/Down converters
Conversion (inv-non inv)	In 70/140MHz to L/RF converters
Gain equalization	0-3dB unit S to units A and B
Monitor & Control Features	
Interfaces:	
Serial – EIA485	DB9 Connector rear panel
Serial – EIA232	RJ45 or DB9 Connector rear panel
10/100 base-T Ethernet	RJ45 Connector rear panel
Alarm and Control	DB9 Connector rear panel
Redundant protection interface	HD15 Connector rear panel
Controls:	
Gain Control	via Serial, Ethernet, Front Panel
Uplink / Downlink Freq Control	via Serial, Ethernet, Front Panel
Mute Control	via Serial, Ethernet, Front Panel, Redundancy Interface
A/S and B/S Redundancy Toggle	via Serial, Ethernet, Front Panel
Local / Remote Toggle	via Serial, Ethernet, Front Panel
Auto / Manual Toggle	via Serial, Ethernet, Front Panel
Clear Alarm	Via Serial, Ethernet, Front Panel
Indicators:	
Uplink / Downlink Frequency	Via Serial, Ethernet, Front Panel
Gain Status	Via Serial, Ethernet, Front Panel
IF & RF Power Detect	Via Serial, Ethernet, Front Panel
Temperature	Via Serial, Ethernet, Front Panel
Active / Standby Status	Via Serial, Ethernet, Front Panel
Switches Position	Via Serial, Ethernet, Front Panel
Summary Alarm Status	Via Serial, Ethernet, Front Panel, Redundancy Interface
Mute Status	Via Serial, Ethernet, Front Panel, Redundancy Interface
Power Supply	
Input Voltage	90-265VAC 50/60Hz PFC
	48VDC Isolated Optional
Mechanical	
Width	19" Rack
Height	4 Shelves 1RU each
Depth	20"
Cooling	Forced air
IF/RF Connectors	
	IF
	BNC (other options available)
	RF
	N-type (other options available)
	L-Band Monitoring (Optional)
	N-type (other options available)
Environmental	
Operating Temperature	0 to 60 deg. C
Storage Temperature	-40 to +85 deg. C