

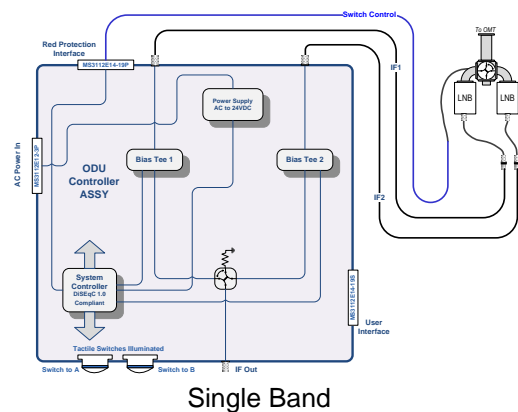
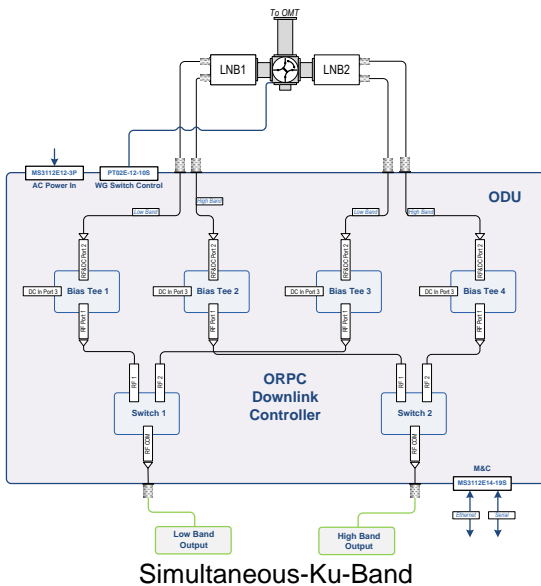
## Overview

The IRT Technologies IRK® (Intelligent Redundant Kit) Series is light weight and super-compact 1:1&1:2 down-link redundancy system. This universal redundant system can accommodate for any LNB of customer choice, it can have an indoor or an outdoor redundancy controller; available in 1:1 and 1:2 configurations. Compact lightweight package is ideal for feedhorn mounting. Simultaneous Ku-band option allows LO control for full RX band covering. IRK® series features extensive monitor & control via serial ports EIA232/EIA485 and Ethernet with SNMPv3 support. The state-of-the-art web browser provides the operator with comprehensive system management tool. IRK® series enable unprecedented system performance, simplicity and reliability.



## Key Features

- **Simplicity**
- **High Reliability**
- **DiSEqC interface LO control option**
- **Easy LNB unit's replacement without interruption of traffic**
- **Remote control over RS-232, RS-485 and Ethernet**
- **Built-in SNMPv3 and web server**
- **Auto-manual, remote/local operational modes; manual override**
- **Manual Switch-Over Buttons**
- **Universal AC Input / DC Powered Optional**
- **Redundant Power Supply Option**
- **Illuminated switch status buttons; status LED**
- **Front Panel (Simultaneous-Ku-Band solutions only)**



## IRK® Series C-Band and Ku-Band LNB 1:1 & 1:2 Redundant System



IRK® Series

# 1:1 & 1:2 Down-link Outdoor C and Ku-Band LNB Redundant System

IF/RF Characteristics			
<b>C-Band:</b>			
IF Frequency Range. MHz	950-1750MHz		
RF Frequency	3.4-4.2GHz (Other options available)		
LO	5.15Ghz		
<b>Ku-Band:</b>			
Output IF Frequency	950-1700MHz		
Input RF Frequency	10.95-11.7/11.7-12.2/12.25-12.75 GHz		
LO	10.0 /10.75 /11.3 GHz		
LO Switching	Via DiSeqC		
<b>Multiplexed within IF Line:</b>			
10MHz Reference to each LNB	Passed through from IF input port		
DC to each LNB	+13-24VDC up to 10W to each LNB		
Insertion loss	2.5 dB typical		
Isolation	60 dB typical		
Switching time	100 msec typical		
Power			
AC in	90-265VAC 50-60Hz		
DC in Option	36-55 VDC Isolated		
Power	Up to 15W max to each LNB		
Interfaces			
RF Input	C-Band CPR 229G/Ku-Band WR75G		
Output IF port Impedance	N-50Ohm / F-75Ohm optional		
User Interface	MS3112E14-19S		
Protection Interface	MS3112E14-19P		
AC In/DC In Optional	MS3112E12-3P		
Monitor & Control Features			
<b>Controls:</b>		<b>Indicators:</b>	
Remote/Local	Via Serial, Ethernet	Remote/Local Indication	Via Serial, Ethernet
Online/Stand By	Via Serial, Ethernet	Active/Stand by status	Via Serial, Ethernet
Auto/Manual	Via Serial, Ethernet	Switch Position	Via Serial, Ethernet, LED
Clear Alarm	Via Serial, Ethernet	Temperature LNB 1-2	Via Serial, Ethernet
Manual Switch-Over	Button on top of RPC Enclosure	Switch Position	Via Serial, Ethernet
LO switching	Via Serial, Ethernet	Over/Under current Alarm 1-2	Via Serial, Ethernet
		Switch Alarm	Via Serial, Ethernet
		Summary Alarm status 1-2	Via Serial, Ethernet, LED
		LO Status	Via Serial, Ethernet
Environmental			
Operating temperature	-40 to 60 deg.C		
Storage Temperature	-40 to +85 deg.C		
Humidity	0 to 100% condensing		

Specifications are subject to change without notice

IRT Technologies Inc.  
9630 TransCanada Route  
Saint Laurent QC  
Canada H4S 1V9

www.irttechnologies.com  
Tel: +1-514-907-1161  
sales@irttechnologies.com

