



AUTOMATIC 1+1 GAN BUC REDUNDANCY SYSTEM, 10.7-11.5 GHZ, KU-BAND, 46 DBM PSAT, 72 DB GAIN, ETHERNET/RS-485



1+1 outdoor Ku-band BUC redundancy system with 950-1750 MHz input, 10.7-11.5 GHz output, 46 dBm GaN Psat, 72 dB gain, Ethernet/RS-485 M&C, 1 dB gain control, and auto failover.

Parameter	Value
SYSTEM REDUNDANCY AND CONTROL	
System Configuration	Automatic 1+1 outdoor redundancy system
Primary BUC Selection	Automatic
Primary Selection After Power OFF/ON	Primary BUC may be changed automatically
Primary BUC Fault Detection	Automatic
Switching to Secondary BUC	Automatic via waveguide switch
Primary BUC Status Monitoring	Secondary BUC continuously checks the status of the Primary BUC
Ethernet M&C	Web-interface based
RS-485 M&C	Control program based
BUC Gain Control	1 dB step

LED Indication	Green – OK; Blink Yellow – MUTE; Red – Alarm
Failed BUC Replacement	Possible while the system is operating
Optional Reference Generator	10 MHz
Included Accessories	Mounting kit and connection cables
INPUT PARAMETERS OF SINGLE BUC	
Input Frequency Range	950-1750 MHz
Input Impedance	50 Ohm
Input VSWR, max.	1.5
Input Interface	N-type Female
LOCAL OSCILLATOR	
LO Frequency	9750 MHz
LO Phase Noise @ 1 kHz	-75 dBc/Hz
LO Phase Noise @ 10 kHz	-85 dBc/Hz
LO Phase Noise @ 100 kHz	-95 dBc/Hz
OUTPUT PARAMETERS OF SINGLE BUC	
Output Frequency Range	10700-11500 MHz
Output Power (GaN), Psat	46 dBm
Output Power (GaN), Plinear	43 dBm
Gain, min.	72 dB typ.
IMD3 (two tones)	-25 dBc max., 2 signals 5 MHz apart at Plinear
Single BUC Output Interface	WR75-G Waveguide Flange

Output VSWR, max.	2.0:1
FREQUENCY RESPONSE	
Flatness over Full Band	± 2 dB (4 dB p-p max.)
Gain Flatness over 40 MHz	0.5 dB p-p
External Frequency	10 MHz
Reference Power Range	± 5 dBm
SPURIOUS CHARACTERISTICS	
In-band @ P1dB, max.	-55 dBc
Out-of-band, max.	-60 dBc
LO Leakage, max.	-40 dBm
Image Rejection, min.	60 dB
POWER SUPPLY	
Input Voltage	30-60 VDC, nominal 36 VDC
Power Consumption, max.	<220 W
ENVIRONMENTAL CONDITIONS	
Operating Temperature	-25 °C to +50 °C
Operating Humidity	0-95%
SYSTEM INTERFACES	
IF Input Connector	N-type female
RF Output Connector	WR137-G
DC Connector	C90-3102R10SL-4P

Monitor & Control Connector	UTS014E19P
Monitor & Control	Serial RS-485, Step Attenuator, Ethernet
LED Indicator	Green – OK; Red – Alarm; Blink Yellow – MUTE
MECHANICAL CHARACTERISTICS OF REDUNDANCY SYSTEM	
Dimensions	650 x 400 x 300 mm
Weight, max.	11 kg

Taking into consideration that we (ROKS PrJSC) are developer and system integrator, also do not stop on our technical growth and improvement, know that the view of all our devices and equipment including their technical parameters may be different from pictures presented on website and parameters listed on each device webpage.

Note! All details the customer has to confirm in advance during ordering and before payment. Those parameters that were not specified and / or were not agreed while ordering will be implemented as basic at the discretion of the manufacturer. Each of our customers has a 1.5 year warranty and 7 year aftersales support for the whole range of our products.