1:1 Intelligent Redundant Kit
16W to 350W SSPA/SSPB

The Intelligent Redundant Kit 16W-350W Ku-Band 1:1 redundancy system is lightweight and super compact, due to compact size BUCs/SSPAs equipped with intelligent built-in redundancy controller. This redundancy system does not require an external redundancy controller; therefore having no single point of failure in the redundancy system.
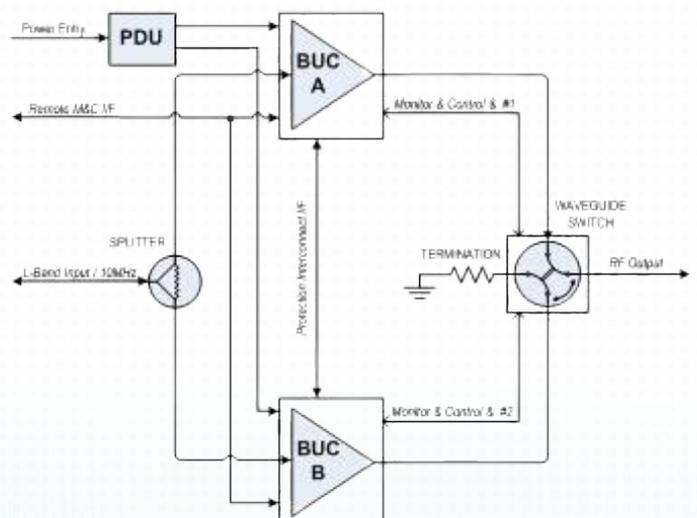
The system features extensive monitor and control via serial ports EIA232/EIA485 and Ethernet. The state of the art web browser provides the operator with comprehensive system management tool. Power Distribution Unit (PDU) make power connection extremely simple and convenient for the user - only one power entry cable for the system.

Options

- Internal 10MHz Reference
- Indoor 1RU Remote control unit

Features

- Eliminates External Redundancy Controller as a single point of failure for the system
- Input splitter provides 10MHz reference to both BUCs simultaneously - Real hot standby mode for the case of external reference
- Easy BUC/PA units replacement without interruption of traffic
- Remote control over RS-232, RS-485 and Ethernet
- Built-in SNMP and web server
- Auto manual, remote, manual override operational modes
- BUC A/B gain equalisation feature
- Manual switch-over button
- Power distribution junction box

IF / RF Characteristics	
IF Frequency Range	950 - 1700 MHz
RF Frequency	13.75 - 14.5 GHz
Return Loss at IF In Port	-14 dB max
Return Loss at RF Out Port	-16 dB max
Output Power	Up to 350W at PSAT
Input IF port Impedance	50 Ohm
External Reference	
Frequency	10 MHz
Int./Ext. Autosense	Int. clock locks on external reference
Interface	Multiplexed with IF
Phase Noise	@ 10 Hz, -150 dBc/Hz @ 100 Hz, -130 dBc/Hz @ 1 kHz, -140 dBc/Hz
Power Level	0 dBm ±5 dBm
Power	
AC Option	90-265 VAC 50-60Hz to each BUC/SSPA
DC Option (16-100W only)	36-55 VDC Isolated to each BUC/SSPA
Interfaces	
IF IN (L-Band and 10MHz)	N-type female
RF Out	WR75 Grooved
User Interface	MS3112E14-19S
Monitor & Control Features	
Controls Via Serial, Ethernet	Remote/Local, Online/Stand By Toggle, Auto/Manual Toggle, Mute Control, Gain Control, Clear Alarm, LO Select
Manual Switch-Over	Nob on redundancy switch
Indicators Via Serial, Ethernet	Remote/Local Indication, Active/Stand by status, Mute Status, Switch Position (with LED), Gain Status, Temperature BUC 1-2, Lock status BUC1-2, Summary Alarm status 1-2, Output Power Detection
Mechanical	
Size	16W to 50W: 58.5 x39.5×17cms / 60W to 100W: 58 x 63.5 x 13 cms 150W to 200W: 61 x 81 x 18 cms / 250W to 350W: 66 x 98 x 30.5 cms
Weight	16W to 50W: 8kg / 60W to 100W: 17kg 150W to 200W: 30kg / 250W to 350W: 57kg
Finish	Painted white
Environmental	
Temperature	Operating: -40 to +55 deg.C Storage: -40 to +85 deg.C

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.
Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.