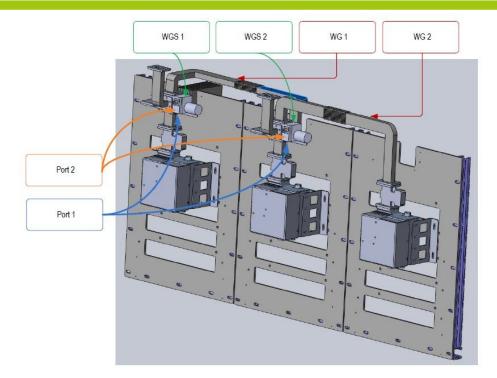
1:2 Redundant System



150W to 400W SSPA/SSPB



High Power Intelligent Redundant System

The new intelligent 1:2 Redundant System is light weight and super-compact due to revolutionary small size Spacepath BUCs/SSPAs. The 1:2 Series offers exceptional reliability, it allows user to operate two separate channels FULLY redundant using only THREE SSPAs/BUCs instead of FOUR SSPAs/BUCs required for each channel 1:1 redundant solution.

The system features extensive monitor & control via serial ports EIA232/EIA485 and Ethernet. The state of the art web browser provides the operator with comprehensive system management tool. Intelligent Redundancy Control module is equipped with illuminated switch control buttons indicating switch positions and providing user with convenient manual switch control

Options

Internal 10MHz Reference

Features

- Super Compact up to 200W PSAT 1:2 redundant in only 76x147x20cms
- Super Compact up to 400W PSAT 1:2 redundant in only 81x170x30cms
- Superior RF performance:
 - High Linearity
 - PSAT up to 56 dBm
 - Wide dynamic range of Gain Control

- Extremely High Power Efficiency
- Easy BUC/SSPA unit's replacement without interruption of traffic
- Illuminated switch position indicators
- Manual switch control buttons
- Configuration via RS-232 Serial Console, Packet Protocol RS-485—User friendly HTTP based GUI and SNMP Support
- Pre-set gain equalisation for each channel—no need to equalise gain at switch over
- RF Overdrive protection

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| Parameter | 150W-200W | 250W-400W |
|--|--|-------------------------------------|
| RF Performance | | |
| RF Frequency Ranges-Available | 14-14.5GHz | 13.75-14.5GHz |
| Saturated Power | Up to 53 dBm typ | Up to 56dBm typ |
| Linear Power | Up to 50dBm min | Up to 53dBM min |
| Gain | SSPA – 68dB min, 70dB typ | BUC – 75dB min, 77dB typ |
| Gain Flatness | +/-1.5dB max over full band; +/-0.5dB max over any 40MHz | |
| Gain Stability over temperature | +/-1.5dB over full temperature range | |
| Gain Control | 20dB min dynamic range | |
| Linearity: 2 tone IMD Spectral Re-growth | -25dBc at P linear -30dBc for QPSK at 1.5 x symbol rate at P linear +1dB | |
| Output Spurious: Non-signal related Signal related | SSPA – 65dBc max SSPA – 60dBc max | BUC - 60dBc max BUC - 55dBc max |
| BUC Version Only | | |
| External Reference Frequency | 10MHz multiplexed with IF In | |
| External Reference Required Phase Noise | -130dBc/Hz @ 100Hz -140dBc/Hz @ 1kHz -150dBc/Hz @ 10kHz -155dBc/Hz @ 100kHz | |
| Up-Converter Phase Noise | -68dBc/Hz @ 100Hz -80dBc/Hz @ 1kHz -90dBc/Hz @ 10kHz -95dBc/Hz @ 100kHz -115dBc/Hz @ 1MH | |
| Power | | |
| AC Voltage Range | 190-265VAC 50-60Hz auto-ranging PFC | |
| Power Consumption at rated power (full system) | 3500W typ | 6500W typ |
| Power Consumption at 3dB back off | 2800W typ | 5500W typ |
| Mechanical | | |
| Size | 76x147x20cms | 81x170x30cms |
| Weight | 50KG | 102KG |
| Cooling | Forced Air | |
| Operating temperature | -40°C to +55°C | |
| | -40-01 | 10 +55°C |
| | | 6 condensing |
| Relative Humidity | | |
| Relative Humidity Interfaces | Up to 1009 | |
| Relative Humidity Interfaces RF/IF Input Connector | Up to 1009 N-type | 6 condensing |
| Relative Humidity Interfaces RF/IF Input Connector RF Output Connector RF Sample | Up to 1009 N-type WR75 | female |
| Relative Humidity Interfaces RF/IF Input Connector RF Output Connector | Up to 1009 N-type WR75 N-type | 6 condensing e female grooved |