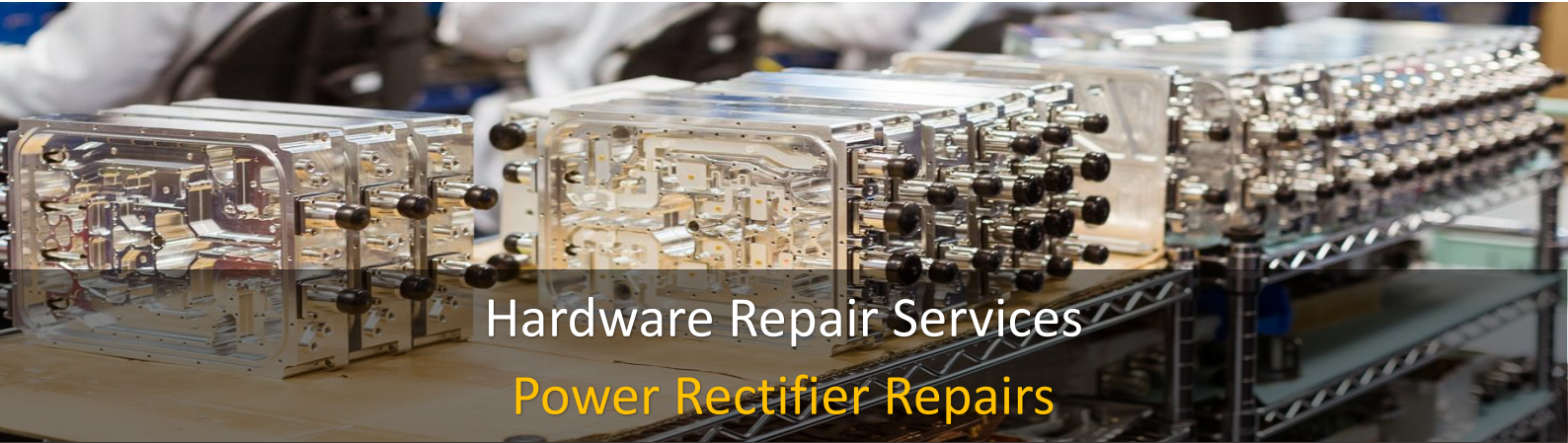




SMARTER WIRELESS



Hardware Repair Services Power Rectifier Repairs

Radio Design's Hardware Repair Services division holds a unique capability enabling successful, cost-effective repairs of several power rectifiers for OEMs and MNOs. Due to the complexity of the component, very thorough repair and test processes are required in order to ensure the component is in full and safe working order when returning to service.

In general, the main cause of component failure is the temperature at which rectifiers operate. Even at 95% efficiency, hundreds of watts of heat output can impose significant thermal stress on internal components, demonstrated by the typical failure modes below.

Switching Card &
Auxiliary Circuit
Failure

Electrolytic
Capacitor Failure

Typical
Failure
Modes

Blown FETs /
Transistors / Diodes

Thermal Issues, Dry
Joints, Fan Issues



Radio Design HRS:

- ✓ 55+ square metre space assigned solely to rectifier repairs
- ✓ Industry-leading turnaround times
- ✓ 6,000+ rectifiers repaired since 2015 (100-200 per month)
- ✓ Very low scrap rate
- ✓ World-class engineering team solely dedicated to Radio Design HRS
- ✓ Low logistic and repair costs
- ✓ RoHS and WEEE compliant disposal service option

For more information visit: www.radiodesign.eu/hardware-services/ or email: a.chadwick@radiodesign.eu