



# Kitron

Your ambition. Our passion.

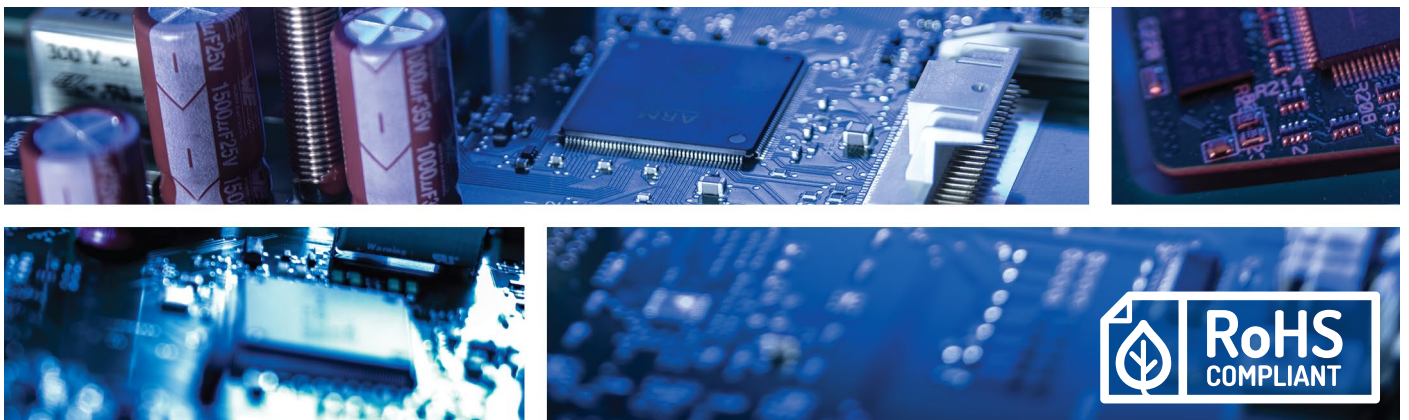
## RoHS Compliance

### RoHS directive and scope

The European Union's RoHS directive restricts the use of six hazardous materials in the manufacture of various types of electronic and electrical equipment. It is often referred to as the directive of "lead-free" electronics. However, the six substances restricted are:

- Lead (Pb)
- Mercury (Hg)
- Cadmium (Cd)
- Hexavalent chromium (Cr6+)
- Polybrominated biphenyls (PBB)
- Polybrominated diphenyl ether (PBDE).

RoHS = Restriction of the use of certain Hazardous Substances in electrical and electronic equipment. The first version of the directive (RoHS 1) took effect in 2006. In 2013, an updated directive (2011/65/EU RoHS 2) became law and took effect. The key difference in the recast to RoHS 2 is that it is now necessary to demonstrate conformity in a similar way to the LVD and EMC directives. This means that you as product owner need to be able, by law, to show compliance in sufficiently detailed technical files. Like the other CE marking directives it mandates production control and traceability to the technical files. There are two approved methods of achieving presumption of conformity, either technical files should include test data for all materials or include technical documentation of assessment according to EN50581.



### Kitron RoHS analysis

The Kitron component engineering department, with our component database CIS (Component Information System), distribution channels and our technology providers, will verify that all components in your bill of material are defined and comply with RoHS 2 regulations. Our RoHS analysis will also ensure that all components not only will be RoHS 2 compliant by themselves but that they are also applicable for use in the manufacturing process of lead free soldering according to the latest IPC standards. This assures not only RoHS 2 compliance but also that the high quality IPC assured soldering process with appropriate temperature profiles can and will be applied.

The RoHS analysis will result in a technical report and RoHS certificate, which will be part of your technical file according to the EU directive.