

PD IEC/TS 62668-2:2014



BSI Standards Publication

# Process management for avionics — Counterfeit prevention

Part 2: Managing electronic components  
from non-franchised sources

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The UK participation in its preparation was entrusted to Technical Committee GEL/107, Process management for avionics.

A list of organizations represented on this committee can be obtained on request to its secretary.

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# TECHNICAL SPECIFICATION



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## Process management for avionics – Counterfeit prevention – Part 2: Managing electronic components from non-franchised sources

INTERNATIONAL  
ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PROCESS MANAGEMENT FOR AVIONICS –  
COUNTERFEIT PREVENTION –****Part 2: Managing electronic components  
from non-franchised sources**

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC/TS 62668-2, which is a technical specification, has been prepared by IEC technical committee 107: Process management for avionics.

IEC/TS 62668-2 adapts and modifies the GIFAS 5052/2008 document that has served as a basis for the elaboration of this technical specification.

This technical specification is to be used in conjunction with IEC/TS 62239-1 and IEC/TS 62688-1.

The text of this technical specification is based on the following documents:

Enquiry draft	Report on voting
107/228/DTS	107/236/RVC

Full information on the voting for the approval of this technical specification can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts in the IEC 62668 series, published under the general title *Process management for avionics – Counterfeit prevention*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- transformed into an International standard,
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

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## **PROCESS MANAGEMENT FOR AVIONICS – COUNTERFEIT PREVENTION –**

### **Part 2: Managing electronic components from non-franchised sources**

#### **1 Scope**

The avionics industry has a responsibility to ensure that all flight equipment produced has a predicted product life which correlates to the predicted repair and service life to ensure the public is not endangered. Typically an OEM calculates a mean time between failure (MTBF) and possibly a mean time to failure (MTTF) prediction. These calculations assume all components are new, or considered as “unused”, at the point of introduction into flight use and that no useful component life and/or any “unsafe” component conditions have been used.

This part of IEC 62668, which is a technical specification, defines requirements for avoiding the use of counterfeit, recycled and fraudulent components when these components are purchased outside of franchised distributor networks for use in the aerospace, defence and high performance (ADHP) industries. This practice is used, as derogation, only when there are no reasonable or practical alternatives.

Although developed for the ADHP industry, this document may be used by other high-performance and high-reliability industries, at their discretion.

#### **2 Normative references**

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC TS 62239-1, *Process management for avionics – Management plan – Part 1: Preparation and maintenance of an electronic components management plan*

IEC TS 62668-1:2014, *Process management for avionics – Counterfeit prevention – Part 1: Avoiding the use of counterfeit, fraudulent and recycled electronic components*

AS/EN/JISQ 9100, *Quality Management Systems – Requirements for Aviation, Space and Defense Organizations*

AS/EN/JISQ 9120, *Quality Management Systems – Requirements for Aviation, Space and Defense Distributors*

#### **3 Terms, definitions and abbreviations**

##### **3.1 Terms and definitions**

For the purposes of this document, the following terms, definitions and abbreviations apply.