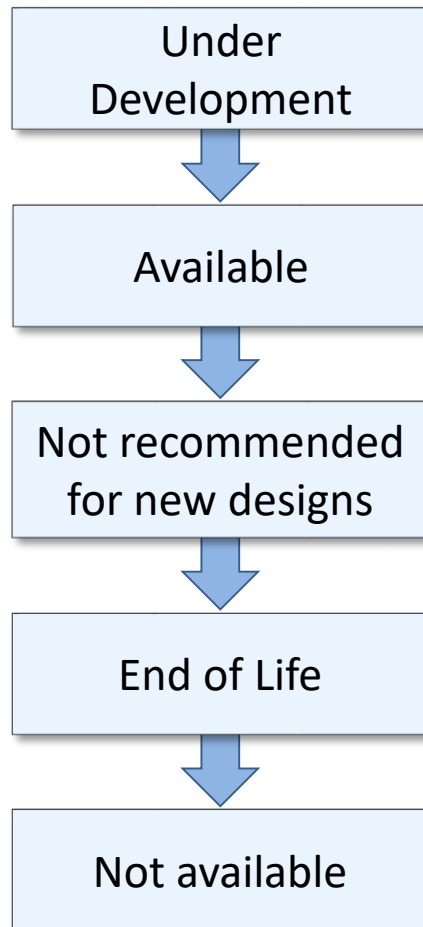




esd electronics gmbh

Quality Products – Made in Germany

Product Life Cycle Management



Our products are developed for long-term availability and are produced in constant high product quality for many years. New customer requirements, changes in regulatory framework and discontinued components might lead to redesigns of existing products or developments of successor products.

On the following pages we will give you a short insight in our product life cycle management and our risk management.

The single processes are defined in the Quality-Management-System (QMS) and will be regularly audited and continually developed.



Syntax of the esd Product State

Status State	Bedeutung Meaning	Anzeige auf Datenblatt Note at Data Sheet	Detailbeschreibung	Description in Detail
PLAN	In Planung In planning stage	This product is in planning stage.	In Planung Das Produkt befindet sich in der Planungsphase. Angaben zu technischen Daten sind vorläufig.	In planning stage This product is in planning stage. Technical data are preliminary.
VORB	In Vorbereitung In preparation			
ENTW	In Entwicklung Under development	This product is under development. It will be available Qx 20yy.	In Entwicklung Das Produkt ist in der Entwicklung. Alle technischen Daten können sich ohne vorherige Ankündigung ändern. Das voraussichtliche Verfügbarkeitsdatum ist etwa [DATUM], kann sich aber ändern. Für weitere Informationen kontaktieren Sie bitte unser Sales-Team.	Under development This product is under development. All technical data are subject to change without prior notice. The availability is expected approx. [DATUM] but may change. For further information please ask our sales team.
VERF	Verfügbar Generally available	Keine none	Verfügbar Dieses Produkt ist generell verfügbar und wird voll unterstützt. Bitte wenden Sie sich an unser Sales-Team für Informationen über Lieferzeit und verfügbaren Bestand.	Generally available This product is generally available and is fully supported. Please ask our sales team for delivery times and available stock.
NFND	Nicht für Neuentwicklungen Not recommended for new designs	This product is not recommended for new designs.	Nicht für Neuentwicklungen Das Produkt ist weiterhin verfügbar und wird voll unterstützt. Es wird aber nicht für Neuentwicklungen empfohlen (z.B. wegen abgekündigter Bauteile oder weil ein Nachfolgeprodukt verfügbar ist). Bitte wenden Sie sich an unser Sales-Team für Informationen über die Verfügbarkeit und über Ersatzprodukte.	Not recommended for new designs This product is still available and is fully supported, but it is not recommended for new designs (e.g. due to discontinued components or if a successor is available). Please ask our sales team for availability and for substitute products.
EOL	End of life	This product is in life cycle stage end-of-life.	End of Life Das Produkt wird nicht mehr produziert, aber eine begrenzte Stückzahl kann noch verfügbar sein. Bitte wenden Sie sich an unser Sales-Team für Informationen über die Verfügbarkeit und über Ersatzprodukte.	End of life This product is out of production, but a limited number of items may be still available. Please ask our sales team for availability and for substitute products.
NV	Nicht verfügbar! Not available		Nicht verfügbar Das Produkt wird nicht mehr produziert und es ist kein Lagerbestand mehr vorhanden. Bitte fragen Sie unser Sales-Team nach Ersatzprodukten.	Not available This product is out of production and finally out of stock. Please ask our sales team for substitute products.



Measures to ensure long-term Product Availability

- Already during the development of the products, measures are taken to ensure optimum long-term product availability.
- In the development state we consider the manufacturer's information concerning long-term availability of their components. (e.g. Intel Embedded Product Roadmap)
- If components have the same technical suitability, components with assured long-term availability will be preferably used.
- During the serial production (from state VERF) incoming Product Change Notifications (PCN) are also evaluated concerning their effects on availability.



Possible Risks for Availability of Products in the current Serial Production

- End-of life notification of a component (EOL) by the manufacturer, that leads to a change of the product
- Changes of a component specification by the manufacturer, so that the component can no longer be used in the product
- Extension of the delivery period, so that the product can not be produced in the required quantities
- Changes of specification or legal requirements, which require a redesign



Management of the Product Change Notifications (PCN)

- Request towards the distributors, to send PCNs to esd
- Request towards the EMS service providers, to send PCNs concerning the provided components to esd
- Review of the PCNs in the purchasing department, assignment to the esd products and notification of the development department
- Evaluation of the PCNs by the product developer
- Measures for the assurance of the future availability



Possible Measures based on PCNs

- **Redesign or adaption of the specification**
For standard products a redesign with consistent properties (Form-Fit-Function) is the objective. If restrictions or differences in the specification occur, the documentation will be adapted (web, data sheet, manual).
- **Stockpiling of discontinued components**
If a redesign is not possible due to technical or economical reasons, esd will keep a sufficient quantity of components on stock, to satisfy the usual level of demand for at least 5 years.
- **Solution in customer dialog**
At customer agreements, e.g. current blanket orders or existing QAA, the customer will be informed early and will be involved in decisions concerning redesign and a possible stockpiling of discontinued components.



Arrangement of an Extended Availability Check

- In addition to the regular measures of the PCN management further and regularly recurring checks of the availability of the product components can be arranged.
- This can be agreed with the customer for standard products as well as for customer-specific products.
- At the extended availability check, with every new production order the long-term availability of all parts of the bill of materials (BOM) can be checked and evaluated. Thus, measures to ensure the product availability can be taken early.



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Quality Products - Made in Germany

esd electronics gmbh
Vahrenwalder Str. 207
30165 Hannover
Germany
www.esd.eu



Amtsgericht Hannover HRB 51373
Managing Director Dipl.-Ing. Klaus Detering
VAT-ID DE 115672832
WEEE-Reg.-No. DE 92952673

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