

Total Traceability

Product Information

Features

When you need to be able to record the source of all components in a PCB assembly, Europlacer have developed the Total Traceability system. This records all the data automatically and not just component batch numbers.

Total Traceability allows users to introduce full traceability into their production system as an integrated solution.

No need for an external barcode scanner, the PCB camera reads board code and the Intelligent Feeders hold batch data.

Europlacer Intelligent Feeders record their component identity, inventory count and pickup correction. This data can then be used by the machine for component traceability.

Additionally PROMON software can utilise the data for production monitoring of the process.

This option (E172829) allows to generate one .csv or .xml file for each PCB or circuit produced on the machines.

It is used to record individual product data:

- ▶ product reference
- ▶ serial number of the board
- ▶ date of libraries
- ▶ production date and time
- ▶ component's data (item code, item name, lay-out reference)
- ▶ electrical test result (option)

The file's formats used for the data storage, permits remote access over networks in a universal format to suit proprietary software.

Example of Traceability File Format XML

```
<?xml version="1.0" encoding="UTF-8" ?>
<Order VersionApp="1.1" DateFormat="yyyy/MM/dd">
  <Action>TRACEABILITY</Action>
  <Object>BOARD</Object>
  <Data>
    <HEADER>
      <MANUFACTURERORDER> Work Order (Product batch number) (max. 32 char.)
    </MANUFACTURERORDER>
      <CUSTOMER> Customer name (max. 20 char.) </CUSTOMER>
      <PRODUCT> Product name (max. 20 char.) </PRODUCT>
      <INDEX> Program issue (max. 20 char.) </INDEX>
      <MACHINE> Europlacer machine name (max. 8 char.) </MACHINE>
      <BEGINDATE> Date of beginning for the board production (DD/MM/YYYY) </BEGINDATE>
      <BEGINTIME> Hour of beginning for the production of the board (HH:mm:ss) </BEGINTIME>
      <ENDDATE> Date of end for the production of the board (DD/MM/YYYY) </ENDDATE>
      <ENDTIME> Hour of end for the production of the board (HH:mm:ss) </ENDTIME>
      <FLAGPRODUCTION> F, P or E (F means there has been a problem on at least one component, P if there
      has been no default during the production of the board or E if the production has never been finished
      correctly) </FLAGPRODUCTION>
    </HEADER>
    <SERIALPCB id= Board serial number (max. 20 char.) >
      <PANEL id= Pattern name (max. 11 char.) >
        <REFERENCE id= Topographical mark (max. 8 char.) >
          <CARRIER /> Reel code if Stock management activated (max. 10 char.) </CARRIER>
          <ARTICLE> Item code used for the production (max. 18 char.) </ARTICLE>
          <ERROR> Code showing the result of the operation (same format as CSV)</ERROR>
          <ACOMMENT> Item name </ACOMMENT>
          <BATCH /> Batch number of the item </BATCH>
          <ASOURCE /> Item code of reference for the program if the substitution item is used
          </ASOURCE>
          <FEEDERSERIAL> Serial number of the feeder </FEEDERSERIAL>
          <FEEDERSLOT> Slot number of the feeder </FEEDERSLOT>
          <ELECTRICAL> Only if the electrical test is used
          <THEORETICALVALUE> Theoretical elec. value of the component </THEORETICALVALUE>
          <TOLERANCE> Accepted tolerance in % for the electrical value </TOLERANCE>
          <PROCEDURE> Electrical test procedure </PROCEDURE>
          <MEASUREDVALUE> elec. value measured for the component </MEASUREDVALUE>
          </ELECTRICAL>
          <CUSTOM1> Comment in Custom field 1 </CUSTOM1>
          <CUSTOM5> Comment in Custom field 5 </CUSTOM5>
        </REFERENCE>
      </PANEL>
    </SERIALPCB>
  </Data>
</Order>
```

As part of our policy of continuous development, specifications are subject to change without notice.

