



## In-house production capabilities overview

<b>Production data</b>	Data by email; digitisation of film templates possible
<b>Data formats</b>	DPF, Gerber, extended Gerber, HPGL, Eagle.BRD files
<b>Product range</b>	Single-sided, double-sided and plated-through printed circuit boards, multilayer, HDI
<b>Max. number of layers</b>	12 layers, more on request
<b>Material thickness</b>	1.0 mm – 3.2 mm
<b>Max. usable area</b>	490 x 580 [mm x mm] or 500 x 570 [mm x mm]
<b>Laminate types</b>	FR-4 according to IPC 4101 Tg 130, Tg 150, Tg 170; also halogen-free materials
<b>Multilayer cores</b>	From 0.1 mm; copper cladding 18, 35, 70 and 105 µm, others on request
<b>Cu electroplating</b>	Plated-through holes 25 µm; final copper thickness 35, 70, 105, 210 µm; other Cu thicknesses on request
<b>Conductor structure</b>	100 µm, less on request
<b>Drilling</b>	Min. plated-through hole diameter: 0.20 mm Microvias ≥ 80 µm
<b>Aspect ratio</b>	Max. 1:8
<b>Surface finishes</b>	Chem. Sn, lead-free HAL, electroless nickel/gold (ENIG)
<b>Solder mask</b>	Semi-matt photoimageable solder resist, green, blue, red, white*, black*
<b>Additional prints</b>	Legend print, peelable mask, plugging according to IPC 4761 Type IIIa and Type VI (mask)
<b>Hole plugging</b>	Resin plugging according to IPC 4761 Type VI and Type VII
<b>Contour processing</b>	Routing, V-scoring (also jump scoring), chamfers 45° and 20° (PCI), also recessed; depth milling and countersinks on request
<b>Testing</b>	Electrical test, AOI for inner layers, AVI for outer layers, 100% final inspection, impedance calculation and impedance testing
<b>Approvals</b>	UL File E130014, DIN EN ISO 9001, DIN EN ISO 14001, DIN EN ISO 50001
<b>Production standard</b>	IPC 6012 Class 2; Class 3 by agreement
<b>Delivery times</b>	12–15 working days
<b>Express services</b>	Double-sided plated-through: from 3 working days Multilayer: from 5 working days Multilayer Ni/Au: from 6 working days

\* Special design rules apply

Do you have additional requirements or questions? Please contact us. We will be pleased to help.

Schaltungsdruck Storz GmbH + Co. KG  
Carl-Benz-Str. 1  
79341 Kenzingen, Germany

Tel.: +49 7644 9163-0  
Fax: +49 7644 8146  
E-mail: [vertrieb@storz-pcb.de](mailto:vertrieb@storz-pcb.de)