The Xaar Inkjet Development System (IDS) provides developers of commercial and industrial inkjet printers with all the inkjet components necessary to build a prototype or evaluation system.

The Xaar IDS is proven to reduce the time to market; it is provided as a complete system enabling rapid progression through prototype and evaluation and subsequently to a production ready solution. Inkjet development can be complex, entailing the interaction of many physical, chemical, mechanical, electrical and software parameters. By providing all the components necessary for a fully-functional system as well as drive electronics and an ink supply system designed for real world use, the IDS lets developers create an inkjet solution that can be scaled to production without needing to redesign critical components.

**BENEFITS**
- Reduced time to market
- Proven, de-risked solution
- Production capable drive electronics and ink systems
- Full on site support
- Reference design source code
- Scalability to production

The Xaar IDS is supplied with Xaar 1002 printheads, XUSB drive electronics, the Hydra ink supply solution and a PC application software enabling configuration of the data stream, integration with “upstream” software and source code and the capability to integrate system capabilities into your application.

The Xaar 1002 printhead family includes the Xaar 1002 GS6 and Xaar 1002 GS12 models. Please discuss your requirements with Xaar to ensure the appropriate printhead is supplied.

Full documentation is available via the Xaar extranet. This can be underpinned with onsite technical support from Xaar’s Applications team.

**WHAT’S INCLUDED**

- Xaar 1002 prinheads, typically 1 or 4. Please discuss your requirements with Xaar to ensure the appropriate printhead is supplied
- Xaar XUSB Drive Electronics:
  - Each box drives up to 8 prinheads
  - USB 2.0 input
  - IEEE1394 output
- Xaar Head Personality Card
  1 card is required per printhead
- Hydra Ink Supply System Unit (XP10100065)
  Each unit typically runs up to 4 prinheads, 1 colour/liquid type
- Hydra PSU (XP10100066) and the Hydra Sensor Manifold (XP10100067) provides the complete solution

**WHAT’S NOT INCLUDED**

OEM will need to supply the following:
- A mechanical transport system to move the substrate or printhead(s) in relation to each other
- Rotary or linear encoder signals for data synchronisation
- Product Detect signal for print start
- A PC to run the supplied software
- A UV curing lamp (UV inks)
- Upstream software (BMP output) including colour correction, image formatting
SAMPLE SPECIFICATION: 4 COLOUR XAAR 1002 DEVELOPMENT KIT

<table>
<thead>
<tr>
<th>Module</th>
<th>Qty</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xaar 1002 prinheads</td>
<td>4</td>
<td>Refer to printhead datasheet for further details</td>
</tr>
<tr>
<td>Head Personality Cards</td>
<td>4</td>
<td>One per printhead; 4.5m firewire cable supplied</td>
</tr>
<tr>
<td>XUSB</td>
<td>1</td>
<td>Drives up to 8 printheads, cables supplied</td>
</tr>
<tr>
<td>XUSB Power Supply</td>
<td>1</td>
<td>One per XUSB</td>
</tr>
<tr>
<td>Hydra Ink Supply System</td>
<td>4</td>
<td>One system required for each ink colour/fluid type</td>
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</tbody>
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