

Xaar Inkjet Development System

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 system comes complete with printheads, drive electronics, ink supply and a PC software suite enabling configuration of the data stream, integration with “upstream” software and source code and the capability to integrate system capabilities into your application. A documentation pack is provided to assist you in developing your own production hardware and support systems all of which is underpinned with onsite technical support from Xaar’s applications team.

The Xaar Inkjet Development System is proven to reduce the time to market and 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
- Production capable drive electronics and ink systems
- Full on site support
- Reference design source code
- Scalability to production



What's included	
Xaar 1001 Printheads, typically 1 or 4	
Xaar XUSB Drive Electronics: <ul style="list-style-type: none"> • Each box drives up to 8 printheads • USB 2.0 input • IEEE1394 output 	
Head Personality Card 1 per printhead	
Hydra Ink Supply System Unit Each unit typically runs up to 4 printheads, 1 colour/fluid type	

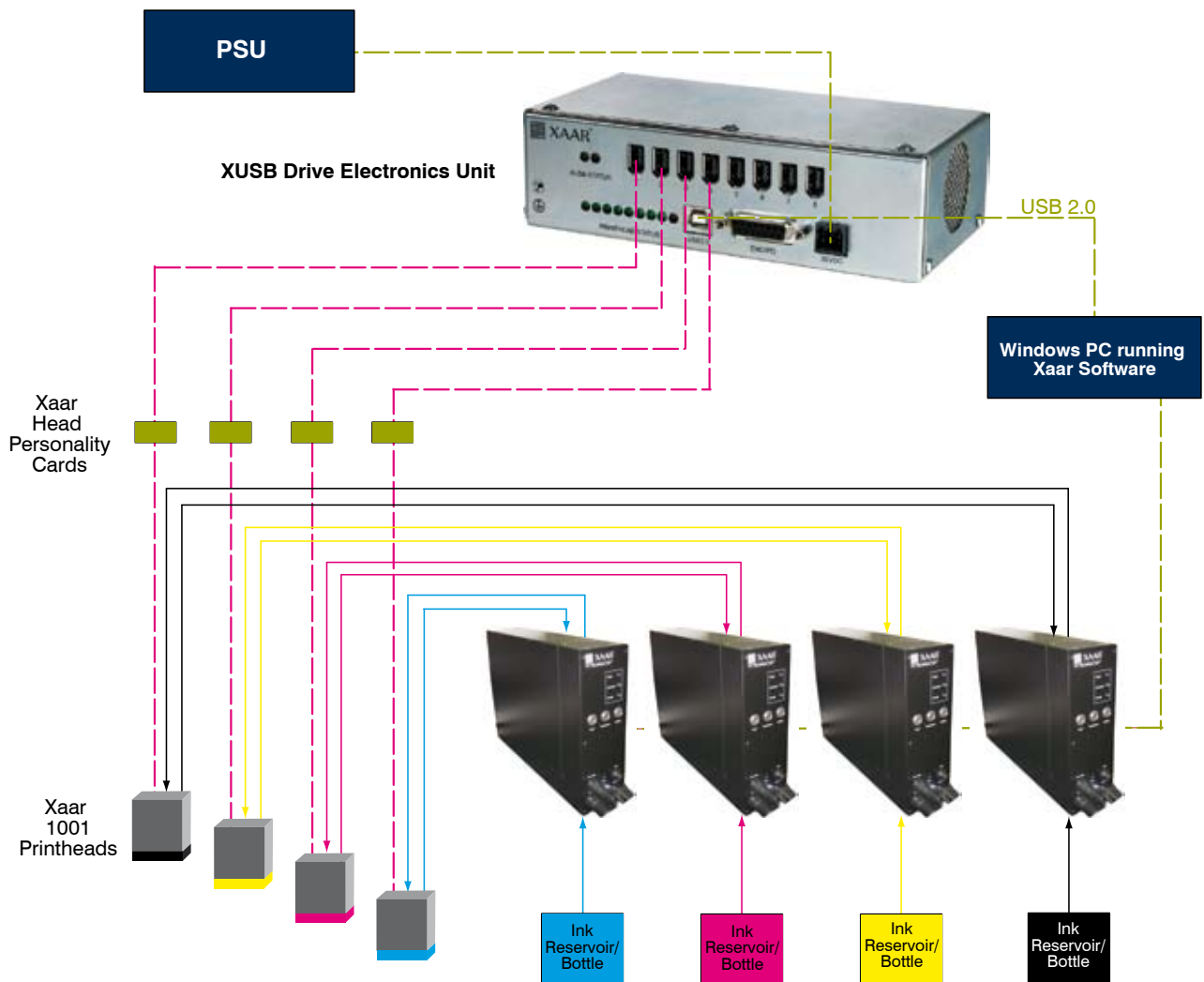
WHAT'S NOT INCLUDED

User 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



Illustrative Block Diagram for Typical Development System



SAMPLE SPECIFICATION: 4 COLOUR XAAR 1001 DEVELOPMENT KIT

Module	Qty	Comments
Xaar 1001 Printheads	4	Refer to printhead datasheet for further details
Head Personality Cards	4	One per head; 4.5m firewire cable supplied
XUSB	1	Drives up to 8 printheads, cables supplied
XUSB Power Supply	1	One per XUSB
Hydra Ink Supply System	4	One system required for each ink colour/fluid type