



# Monochrome Print Module

Optimize workflow by integration of high speed and high quality inkjet printing technology

The Print Module is a brand new *monochrome* inkjet printing system based on the latest inkjet technology (TIJ4) from HP. This technology is well-known for its high print image quality, operator friendliness, reliability and cost effectiveness.

## Excellent print quality at high speeds

Increase workflow optimizing with integration of high-speed inkjet printing systems. The self-servicing of the printheads optimize print quality and enable consistent reliable operation. The TIJ4 technology uses printheads with a double nozzle row, which give the system the unique nozzle redundancy.

## Effective imprinting

Combining printing the variable data with the static shell-print makes a very effective workflow. Depending application specification multiple systems can be combined in one solution. Each system has a print swath of 108 mm (4,25 inches). For a more hybrid solution combinations with full color systems are possible.

## High uptimes

The Print Module is equipped with a comprehensive, automated servicing station. This service station ensures that the printhead is automatically capped, decapped and cleaned with minimum downtime and optimal print quality as result.

## Easy to integrate

The Print Module has a modular design enabling an easy integration in existing equipment like:

- Roll offset and flexo presses;
- Web finishing lines;
- Sheet finishing lines;
- Inserting machines;
- Roll-to-roll webbase;
- Mailable.

## Application examples

- Personalizing
- Addressing
- Direct mail
- Barcoding
- Numbering
- Lottery
- Tickets





# Monochrome Print Module

Specifications	M500 - monochrome
General description	TIJ4 print system for variable data printing with one easily replaceable printheads, including: <ul style="list-style-type: none"><li>- Intelligent Print driver (IPd)</li><li>- Intelligent Ink Supply Station (I2S2)</li><li>- Intelligent Service Station (ISVS)</li><li>- Back-end data pipeline (IPIPE)</li></ul>
Nozzles	1 x 5 die TIJ4 printheads 2 columns per printhead @ 5.280 nozzles each 10.560 nozzles total per printhead
Print swath	108 mm (4,25 inches)
Resolution	600 dpi (600 x 300 dpi optimized from 300 x 300 input)
Drop size	9 ng/drop
Print speed	Up to 2,5 m/s (500 fpm)
Time between pages	50 ms minimum
Image processing time	22 ms/Mpixel @ 300 x 300 input resolution
Ink types available	Dye-based
Ink colors	Black
Bulk ink supplies	2 hot swappable 775 ml ink supplies
Printhead identification	Smart chip
Printhead servicing	Automated serviceing (wiping, capping, spitting). Servicing requirements: ~30 seconds each hour
Pen to paper spacing	1,2 – 2,0 mm for optimum print quality
Printhead orientation	Printing vertically downward
Printhead replacement time	< 5 min
Printhead shelf life	18 months in original packaging
Printhead life	~ 30 liters/printhead
Optimum operator environment	15-35 C, 20-80% rH
Imager dimensions	483 mm (19") H x 432 mm (17") D x 508 mm (20") W

This datasheet maybe subject to change



Printhead (TIJ4)



Ink cartridge 775ml



Printhead Cleaner

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