New SOLID 52A4

![microplex printware ag logo]

SOLID 52A4 Specifications

Standard Configuration

Showing one cassette and duplex as standard

![microplex printware ag logo]

SOLID 52A4 Specifications

Standard Configuration

Showing multi-purpose feeder and the standard cassette open

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SOLID 52A4 Specifications

Print Technology Laser: OPC heat / pressure

Print Controller: MPC 7.1 High-End

Print Speed: up to 52 pages/minute (A4)

First Page Out: approx. 5.9 seconds

Print Resolution: 600 dpi x 600 dpi

Duty Cycle: 3,000,000 (50,000 A4 per month over 5 years)

Environment Temperature: 10 - 32°C Relative humidity 8 – 80%

Power Consumption: 700 W (Sleep Mode: 4,2 W)

Interfaces: USB 2.0, Ethernet 10/100 MBit, bi-directional (TCP/IP)

Options: RS232/RS422, IEEE 1284 (Centronics)
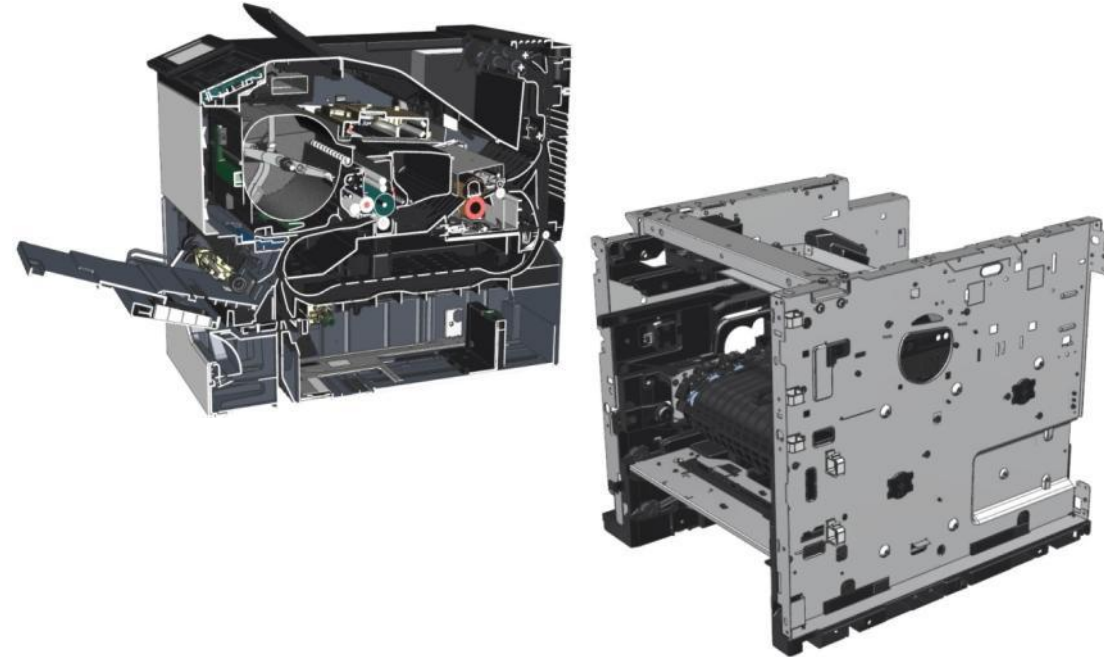
Memory: 1024MB RAM, 32GB Flash

WiFi (Option): 802.11 b/g/n (WPA, WPA-PSK, WPA2, WPA2 –PSK)

Emulations: Microplex IDOL, HP-PCL5e/ HPGL, AGFA Reno, µ-Postscript, LN03+, BULL

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SOLID 52A4 Robust Construction

Durability

Rugged steel frame that is 30 times stronger than normal office printers for durability and improved print quality

Metal rear paper guides stand up to paper tray slams

Long-life components

Ultra High Yield cartridges up to 55K pages

Imaging unit up to 150K pages

Fuser up to 200K pages (part of the maintenance kit)

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SOLID 52A4 Specifications

Standard Configuration

Full colour touch screen control panel

SOLID 52A4 Specifications

Optional Configuration

Output expander 500 sheets (75 g/m²)

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SOLID 52A4 Specifications

Optional Configuration

Face-up-Option

Delivering the document face up from the rear of the printer, ideal for production or plant integration solutions.

![microplex printware ag logo]

SOLID 52A4 Specifications

Optional Configuration

Showing the extra cassettes options for the meeting the required capacity

Input:
550 sheets (75 g/m²) tray,
550 sheets (75 g/m²) lockable tray
up to 4 x 550 sheet trays usable
or 3 x 550 sheet trays plus 1 x 2100 sheet
tray (75 g/m²) Caster Base for 2100 sheet
tray needed

Output:
Output expander 500 sheets (75 g/m²)
Face-up-Option

Spacer (non functioning input tray to
elevate the printer)

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SOLID 52A4 Specifications – the MPC 7.1 Print Controller

The **Microplex Print Controller** is the driving force behind the Microplex brand, this is a very powerful tool and provides many applications that other printers on the market can not do!
…….. more than just a raster image processor
…….. it is a technology that provides for a total integrated print solution
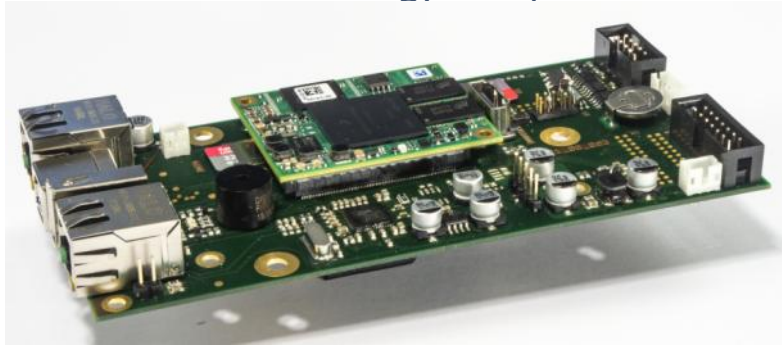
A MPX controller is installed in every Microplex printer ensuring conformity of data acceptance irrespective of the printers installed through out a site

Lifetime warranty*corresponds to the lifetime of the printer (5 years)

Future proof upgrade your IT infrastructure and the printers will still work without expensive rewrites

It turns a normal printer into a smart printer!!!

![microplex printware ag]

SOLID 52A4 Applications – the ability to emulate other print languages

Any old thermal transfer printer

| Utilising the same output | Send it to the Microplex SOLID 52A4 |

A very useful application when a customer wants to change from thermal printer technology to laser because of production issues (no added cost of re-writing the datastream) or they can utilise it as the office printer to supply back-up for the thermal printers.

SOLID 52A4 Applications – the ability to emulate other print languages

Any old Laser printer

Utilising the same output	Send it to the Microplex SOLID 52A4

A very useful application when a customer wants to change from another laser printer to the SOLID 52A4 because of production issues, more robustness or to have an increase in speed (no added cost of re-writing the datastream).

SOLID 52A4 Applications – the ability to emulate other print languages

Any old Line printer

Utilising the same output	Send it to the Microplex SOLID 52A4

A very useful application when a customer wants to change from a line printer to the SOLID 52A4 because of production issues, quality barcodes or needs an increase in speed (no added cost of re-writing the Data stream and we can "force it" to fit an A4 page).

SOLID 52A4 Applications – the ability to emulate other print languages

Delivery Note

Werrtzuuiioooo
Wwwerrttzzuuu
Wwwwwwerrttt
Wwwwwwwww
Wweeee   0000000
Wwwwww   0000000
Qqwwewewe   0000000

Line Printer Utilising the same output

Send it to the Microplex SOLID 52A4

A very useful application when a customer wants to now switch from printing the delivery note on a line printer to cut sheet laser – he can send the same data stream and the emulation embedded in the unique Microplex controller will print it on the SOLID 52A4, faster, quieter, quicker and in better quality.

SOLID 52A4 Applications – replacing a NCR set – Method One (electronically)

Delivery Note
Werrtzuuiioooo
Wwwerrttzzuuu
Wwwwwwerrttt
Wwwwwwwww
Ww   00
Wer   00
Qqwwew 00

Capture customer's signature electronically

Line Printer Utilising the same output

Send it to the Microplex SOLID 52A4

Same information is sent to the accounts department

A very useful application when a customer wants to upgrade from the old NCR set that was printed on a line printer to laser and utilise the latest data capture technology – he can send the same data stream and the emulation embedded in the unique Microplex controller will print the top sheet only on the SOLID 52 A4, faster, quieter, quicker and in better quality.

SOLID 52A4 Applications – replacing a NCR set – Method Two

Customer	Drivers	Accounts	Copy
Werrtzuui	Werrtzuuiic	Werrtzuuiioooo	
Wwwerrtt	Wwwerrttz	Wwwerrttzzuuu	
Wwwwww	Wwwwwwe	Wwwwwwerrttt	
Wwwwww	Wwwwwwv	Wwwwwwwww	
Ww	Ww	Ww	00
Wer	Wer	Wer	00
Qqwwew	Qqwwew	Qqwwew	00
	Signature		
	………………		
	.		

accounts copy can be sent direct to the relevant department

Line Printer Utilising the same output

Send them to the relevant tray on the SOLID 52A4

A very useful application when a customer wants to upgrade from the old expensive NCR set that was printed on an old impact printer to laser but continue to use paper – he can send the same data stream and the emulation embedded in the unique Microplex controller will print the data on each colour as required, faster, quieter, quicker and in better quality.

SOLID 52A4 Applications – the adaptability of the controller

Picking List

Wweeeerrrtqqqqqq	10
Qweeeerrrr	23i
Opwertzu	43
Qwwerrrrr	56
Qwertz	12
Rtezui	57

Make the text fit to A4

Picking List

Wweeeerrrtqqqqqq	10
Qweeeerrrr	23i
Opwertzu	43
Qwwerrrrr	56
Qwertz	12
Rtezui	57

Line Printer Utilising the same output but now for A4 size

Send it to the Microplex SOLID 52A4

A very useful application when a customer wants to now switch from printing a picking list on a line printer to cut sheet laser – he can send the same data stream and the emulation embedded in the unique Microplex controller will "force" the text so it will print on an A4 format on the SOLID 52 A4, faster, quieter, quicker and in better quality.

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SOLID 52A4 Macro Applications - The ability to carry various form designs within the printers as a template

Method one

Send them to be held on the Microplex Print Controller

Design various "blank" form templates

Populate them with variable data direct from the system; the data stream will recognise the relevant design format that's required

A useful application when there is a trigger written at the beginning of the datastream to bring up the correct template. The main benefit of utilising this solution is the reduction of data traffic

SOLID 52A4 Macro Applications

Method two

Design various "blank" form templates

Assign a different port number for each "virtual" printer

Send them to be held on the Microplex Print Controller but for each "Virtual" printer

Populate them with variable data direct from the system; the data stream will be sent to the relevant port for that document, from then it's a normal print function.

This solution is very useful when there is no data content that can trigger the required document, this usually happens when documents were pre-printed and the customer wants to move away from the cost of pre-printed documentation without changing the datastream.

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SOLID 52A4 PDF Direct Print Applications
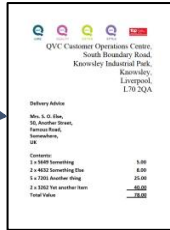
Design a document and save it as a secure PDF

Send it directly without a Windows driver to the SOLID 52A4, the document will be printed exactly as it was designed without any possible changes, ensuring the security of the document and the integrity of the barcodes.

Microplex PDF Direct Print Application
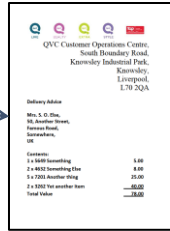
Utilising the unique Microplex MACRO application described previously, determine which cassette needs to be utilised for each PDF and allocate a relevant port number

Design a document and save it as a secure PDF

Not available on the SOLID 50A3 printers

From then on send the data directly without a Windows driver to a Microplex printer, the document will be printed exactly as it was designed without any possible changes, ensuring the security of the document, also ensuring the integrity of the barcodes and from the paper cassette that was designated
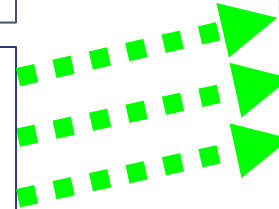
SOLID 52A4 Possible Applications – direct connectivity to IBM host via IPDS

The Competition

IBM Host (IPDS) → **Conversation Box** → **Conversation Box** → **Conversation Box** → **Competitor Printer**
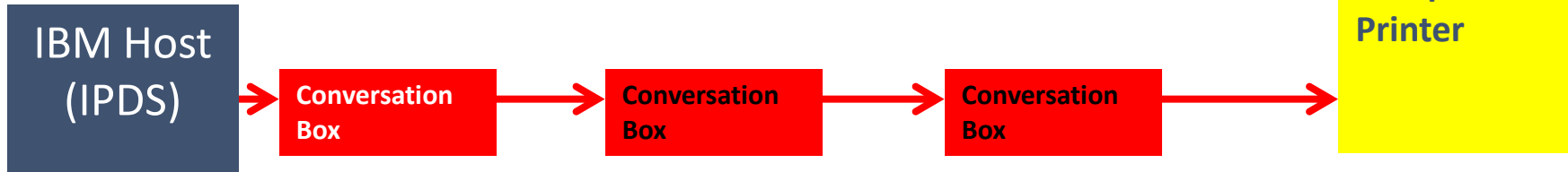
The Microplex solution

IBM Host (IPDS) →

The Microplex way ensures direct communication with the host preserving all the IBM original features of "hand-shaking" directly from the host utilising IPDS and without "boxes" to cause delay and possible communications problems

THE MICROPLEX WAY
IS THE EASY WAY

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SOLID 52A4 Applications – GPIO application to synchronise a printer to a remote signal or interface seamlessly with the PLC that drives the solution

Output to light stack for instant operator intervention

Host

Sensor

PLC
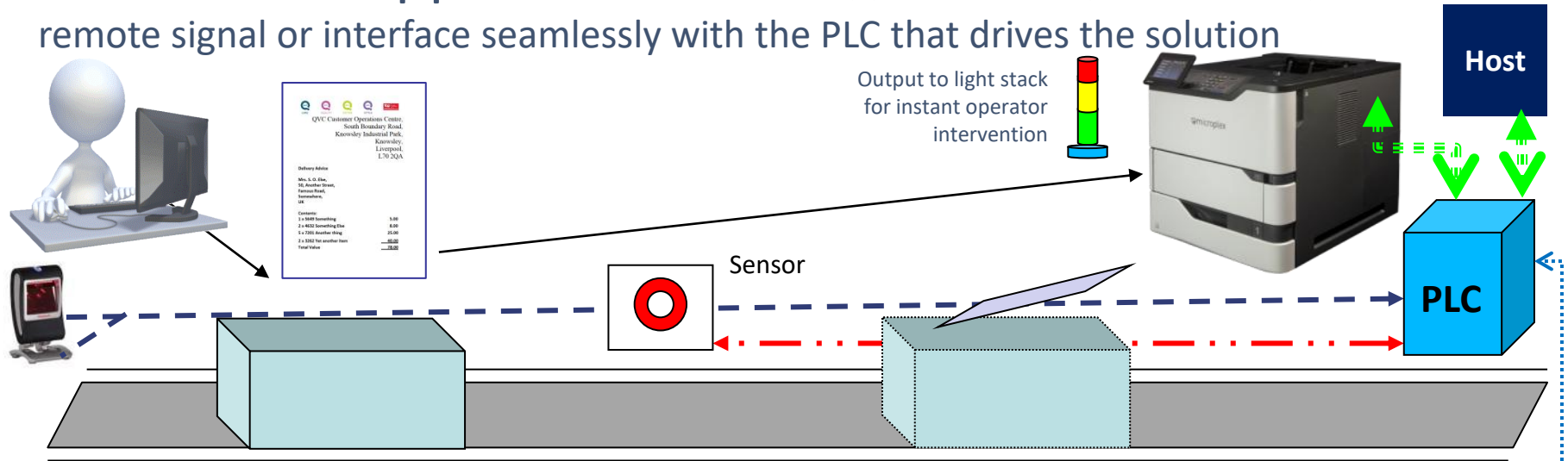
The document is sent to the printer, the printer "holds" the document until it is triggered by the sensor, then the document is printed and delivered to the box (face-up if required). This solution is secure as it ensures that the correct document is delivered to the correct box although sometimes a further barcode scan takes place.

Belt Controller

SOLID 52A4 Applications – Status Out security application

Status Out reports back every correctly printed document ensuring 100% security regarding printed documentation.

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Status Out reports back every correctly printed document

The firmware function "Status-Out" provides the possibility to get information on the printer status (paper jam, offline, paper end, etc) as well as on the print job process (idle, busy, page printed, etc) from the printer. This function was developed to get more detailed information of a printer connected to a remote computer.

The messages are sent to the host via a status channel (V.24 or via port 9200) which is independent from the data channel. Alternatively the messages are sent directly via the data channel to the host. The settings are configurable (EEPROM Parameter).

Two modes are available. In the first one some messages will be sent to the host automatically. Using the second mode the operator may "ask" the printer via IDOL commands about the current status.

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Status Out reports back every correctly printed document

Machine Status Messages (Error Messages)		
OFFLINE	ONLINE	(no error)
Toner Empty	Paper Jam	Paper End
Cover Open	Waste Toner Bottle Full	Service Call
Paper Tray Full	Format Error	Finisher Error
Finisher Error	Cartridge RFID Error	

Warning Messages		
Cover Open	Paper Tray Full	unknown status
Warming Up	Toner Low	Load Paper
Drum Near End	!! UPDATING !!	Power Saving
Fuser Lifetime	StopByExt.Dev	Develop. Lifetime
Maintenance		

Available Languages: German, English, French and Spanish

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GPIO Option for Microplex Printers

The firmware function "GPIO" is a hardware interface that consists of an additional electronic board which provides eight inputs/output channels and status channels of the printer.

The inputs/outputs can be connected to a PLC (Programmable Logic Board) on a production or packing line which can control the print requirement, interface with a robot or a barcode reader on the line hence providing total integration and control. i.e. A real handshake between the printer and post processing can be realised.

GPIO provides the customer with an intelligent and cost effective solution to eliminate the weak point within printer integration into such complex production solutions.

The Microplex way not only the easy way but the safest way!

SOLID 52A4 Possible Applications – Replacement for existing printers

Microplex have many old A4 laser units to replace and most are up for renewal within the next two years. We have trawled our system to generate a list of potential customers.

The replacement market is the first major drive on this printer

SOLID 52A4 Possible Application – production application

Customer: the three largest automobile manufacturers from Germany need to have printers that understand mixed data streams i.e. IGP, ZPL, Labelpoint etc. This is existing data and to re-write it will be far too costly. This unique solution has to be replicated globally.
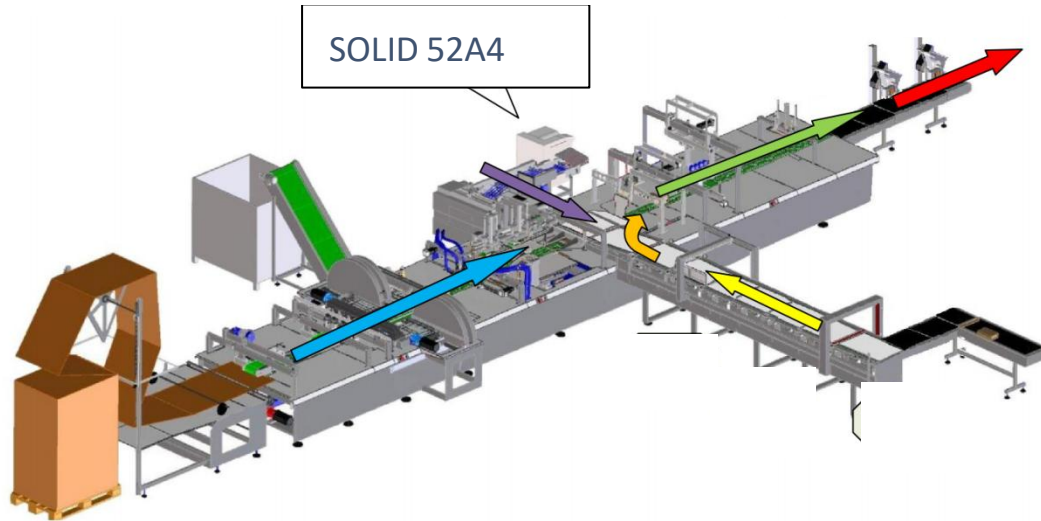
Various mixed data streams are sent direct from the host to the printer, it then assembles them in to a meaningful document

Solution: The SOLID 52A4 witch has this ability in the MPX CONTROLLER will supply exactly what these customers need and the global partner coverage of Microplex will complete the solution.

SOLID 52A4 Possible Application – GPIO control

SOLID 52A4

The SOLID 52A4 provides seamless integration into production lines utilising the full benefits of GPIO control and very often the face-up option.

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SOLID 52A4 Possible Applications – ecommerce

The most well known company working through the television channel where customers can see a product and order it there and then, knowing that they will receive it the next day. To fulfil this requirement they needed a printer that can deliver a document to an inserting machine in less then 3.5 seconds, although this requirement has changed but it still needs to be fast (i.e. very fast first page out).

Possible Solution:
the SOLID 52A4 printer

Working with system integrator, the conveyor manufacturer and the end customer, we hope that Microplex can adapt the SOLID 52A4 to meet the requirements. The customer will need the shortest possible first page out time, as he said 0.2 of a second would mean two hours on a shift, as a shift was eights hours and they were running three shifts, this was not acceptable. With IDOL (Microplex's own printer language being utilised, special software and the synchronisation from GPIO all contributing to shaving time off the printing and delivery of the first page.

SOLID 52A4 Possible Applications – ecommerce
Microplex and Inther work together to increase the speed of the ADA

When Inther approached Microplex for a faster cut sheet printer that could interface seamlessly with their robot applicator, Microplex were up to the challenge. Working closely with the Inther development team, the problem was studied and a solution was found that could enhance the Microplex GPIO standard connectivity with special firmware that gave Inther what they needed to take the ADA from working at 30% capacity to 70% capacity and maybe in the future even more although this is down to the safe speed of the conveyer system.

Maybe the SOLID 52A4 can offer a future alternative to this application

Thank You

Mike Barwick
International Sales Manager
2021