

Future III

Multi Connectivity Converter & Bridge



PRINTER CONVERTER UP TO 130 PPM

HOST & LAN BRIDGE

MULTIPLE CONNECTIVITY

CHANNEL PRINTER AS LAN PRINTER

CONNECTIVITIES/EMULATIONS

Connecting Printers

CSP
AKTIENGESELLSCHAFT

TOKEN RING

ETHERNET

CHANNEL/
MULTI CONNECTIVITY

5250 TWINAX

3270 COAX



Future III Multi Connectivity Converter & Bridge

FUTURE III

Multiconnectivity Converter & Bridge:
FUTURE III for High-End and Midrange printing systems up to 130 ppm.

OVERVIEW



The external Multiconnectivity Converter Future III enables high-end printers to be incorporated in heterogeneous networks. This is even possible with simultaneous connection to a number of topologies.

Convenient and comfortable connection of the classical channel world (main frame) to modern heterogeneous networks such as Fast Ethernet, FDDI or Token Ring can thus be realized with Future III. Numerous different printer emulations such as IPDS, PCL5, Metacode and several Host emulations allow the substitution of many various printers.

Future III means:

- flexibility and reliability now and in the future
- taking an optimum advantage of the already installed systems
- long-term protection of printer investments at low costs

THE MODULAR CONCEPT

All of CSP's products are built-up following one and the same modular principle:

Every base hardware is equipped with one or more connectivity modules and the chosen emulation module - every time perfectly meeting the customer's requirements.

This way nearly any required combination of hardware and software is easily possible.

HARDWARE

Behind Future III is a modern PC system using a 960i Risc graphic processor. The thus connected 32-bit bus makes for flexible application of various PCI/ISA input and output modules. This means to say that individual configuration is assured according to the problem to be solved. Up to two input modules can be used simultaneously. Future III is operated and controlled via an external VGA monitor and a PC keyboard.

UNIVERSAL APPLICATION

Future III replaces the previous built-in solutions for dedicated printers. Each printer can thus be controlled via Channel Bus & Tag, Xerox IOI, or, for example, by Ethernet/Token Ring TCP/IP in the network. The SCSI ports of the various printers are also supported. Maximum flexibility in output ensures full coverage of all areas of application.

CHANNEL SWITCH INTEGRATION

Future III makes connection possible between IBM and Siemens channel worlds. The functionality of an intelligent channel switch can be realised directly in Future III by adding multiple channel input cards - therefore channel switches are no longer necessary. All IBM and Siemens types of channel are supported at one and the same time.

FUTURE III AS BRIDGE

The PC platform in Future III makes bridging of any data stream possible - that means not less than that any host or LAN data can be passed on to any chosen host or LAN environment.

When used as bridge Future III enables a constant printer performance of up to 880 ppm (pages per minute).

DUAL CONNECTIVITY

High-end printing systems are often controlled via channel. With Future III, the use of these printers can be essentially expanded. By means of so-called dual connectivity Future III now permits Twinax/Coax and/or network adapters to be added to the channel connectivity.

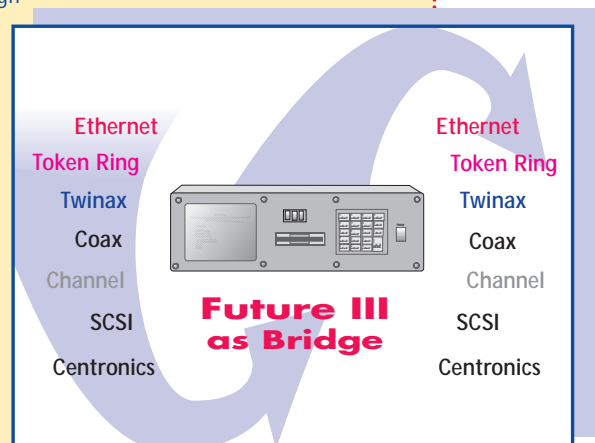
As a result, a high-end printing system can be used without any difficulty under PCL or IPDS emulation as an additional network printer.

While the channel user works with his printer as classical IBM or

Printer converter
up to 130 ppm

Host & Lan
Bridge

Multiple
Connectivity

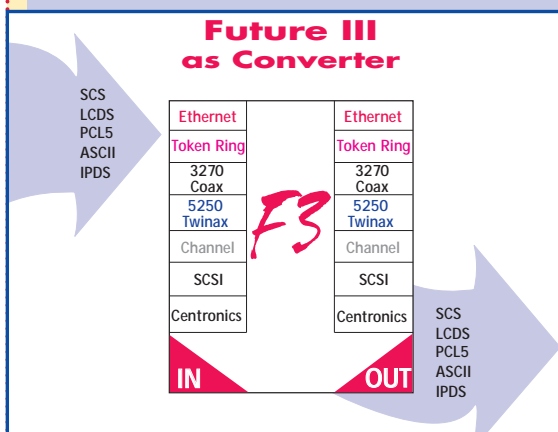


Siemens printer, the network AS/400 user can use the identical unit as PCL or IPDS printing system at the same time.

The printer - no matter if used as host or network printing system - is online all the time. Future III is capable of multi-hosting and multi-sessioning.

NETWORK PROTOCOLS IN LAN

Future III supports many, varied different network protocols in the LAN environment. The customer decides dependent on his computer ambient according to his actual needs.



The following protocols are supported:

- System Network Architecture (SNA)
- APPN support through Ethernet/ Ethernet-Fiberline/ Fast Ethernet/ Token Ring
- TCP/IP connectivity via Ethernet, Fast Ethernet, FDDI or Token Ring
- Support of all UNIX derivations (LPD/LPR)
- Novell IPX, for Ethernet and Token Ring
- NETBios for IBM LAN Server or MS LAN Manager

SOFTWARE AND EMULATIONS

All emulations can be managed simultaneously in Future III. Switching between the emulations occurs without delay and is controlled by the respective job requests „on demand“. Host resources such as images, fonts, overlays, etc. are processed „on the fly“, i.e. precisely on time. This ensures a constant performance (emulation throughput) of up to 130 pages per minute (130 ppm) (For higher emulation speed ask for CSP Mercury).

THE OPERATOR INTERFACE

Future III is equipped with a Dynamic Menu Engine (DME). Dependent on the chosen configuration it allows the user convenient control over the system. The menu engine with appropriate script file generates an operator interface and produces an appropriate set-up and configuration for the Future III itself. Modifications at a later point in time can be made by changing the script file.

PCL PRINTER DRIVER

A special PCL driver for Windows (Windows 3.xx, Windows95, Windows NT) allows the use of the printer's various resident fonts. Moreover, Future III offers approx. 830 PCL fonts which are downloaded during system installation.

HP- & AS/400-FONTS

Future III co-operates the Xerox standard font library of the Centralised Laser Printers (see #600P86174A). Each of these fonts is available in portrait, landscape, inverse portrait as well as in inverse landscape.

Other important FUNCTIONS OF FUTURE III

- Advanced image resolution with 300 x 300 dpi
- 240/300 dpi conversion with IPDS
- Four hosts with up to eight Logical Printer Sessions can be supported at the same time.
- Output of the most varied status information for connectivity, emulation processing and printer output on file, monitor and printer besides the use of already existing fonts.
- A disc-subsystem in Future III enables downloading of host resources. Customer-specific fonts, images, logos, vector graphics, barcodes, overlays, macros, etc. are converted to the respective output data streams.

FUTURE III AND XMCC

Future III for Xerox channel printers is distributed world-wide exclusively by Xerox as XMCC (Xerox Multi Connectivity Converter).

Channel printer as LAN printer

Connectivities/ Emulations

F3

SOFTWARE AND HARDWARE OPTIONS

INPUT CARDS

- Ethernet (RJ45, BNC or AUI), Part No. 10064
- Fast Ethernet Part No. 16040
- Token Ring (RJ45 and SUB-D9), Part No. 10069
- Coax Part No. 10125
- Twinax Part No. 10068
- Channel with internal Bus & Tag, Part No. 16002
- FDDI Copper (RJ45/MLT3), Part No. 16041
- FDDI Fiberline (MIC or Duplex SC), Part No. 16042

EMULATIONS

- Printer Part No. 16013
3338 → 3211,
4245 → 3211,
4248 → 3211
- ASCII Part No. 16014
3211 → ASCII,
3348 → ASCII,
4245 → ASCII,
4248 → ASCII
- EBCDIC Part No. 16015
EBCDIC → ASCII,
EBCDIC → LPT/LPR,
EBCDIC → TCP/IP
- IPDS Part No. 16037
IPDS (LAN → IPDS)

OUTPUT DEVICES

- Centronics (standard)
- SCSI Standard Part No. 10119
- Channel Standard I/O Part No. 16006
- Ethernet (RJ45, BNC or AUI), Part No. 16007
- Token Ring (RJ45 and SUB-D9), Part No. 16008
- Coax Part No. 16009
- Twinax Part No. 16010

APPLICATIONS

- SCS → PCL Part No. 16012
- IPDS → PCL Part No. 16035
- IPDS (LAN) → PCL Part No. 16030
- Metacode → PCL
(Aug. 98) Part No. 16022
- Color Option (IPDS, Metacode, SCS) Part No. 16036
- IPDS → Metacode/LCDS
(on request (XMCC))
- PCL → Metacode/LCDS
(on request (XMCC))

HARDWARE OPTIONS

- Hard Disk (standard)
- Graphic Processor Board Part No. 10067
- Multi Connectivity Kit Part No. 10094
- External VGA monitor and keyboard Part No. 16005

BRIDGE SOFTWARE

- LAN/Host → Centronics (standard)
- Coax/Twinax/Channel → LAN Part No. 16033
- Coax/Twinax → Channel Part No. 16034
- Channel → Channel Part No. 16038
- LAN (Ethernet/Token Ring) → Channel Part No. 16032
- LAN Option: DSC Direct Socket Printing (TCP/IP) Part No. 16032

TECHNICAL DATA

Model	external
CPU	586
Clock	depends on chosen modules
RAM	depends on chosen modules
Power supply	110/230V

Further technical data depends on the chosen modules. We're happy to assist you to find your optimum Future III solution. Call us under phone +49 721-98 53 6-0 or ask your local dealer.

Emulations:

- IPDS for Advanced Function Printing (AFP)
- Emulated printers for AS/400-, SCS- and DCA/FFT*-
Datenströme: 3812, 3816 (5219-Mode)*, 4215, 5219*, 5224, 5225, 5226, 5256, 5262, 6262
- PCL5 in all LAN environments
Supported protocols: NETBios, IPX or TCP/IP.
- LCDS-, SCS- and DCA/FFT data streams can be supported alone or together with PCL5 and IPDS.
- 3211-Channel at channel output.
Emulated printers: 3338, 4225 und 4248.
- Conversion of Channel data streams to Centronics output data streams.
Emulated printers: 3211, 3348, 4245, 4248 (non-IPDS) and 3825 (IPDS).
- All EBCDIC-data streams can be converted to ASCII-data streams. This is why it is possible to feed them via e.g. TCP/IP or LPT/LPR into an Ethernet network environment.

Resident HP fonts as Xerox fonts:

- CG Times (6-24 point)
- Univers (6-24 point)
- Arial (6-24 point)
- Times New Roman (6-24 point)
- Courier (5-27 pitch)
- Letter Gothic (5-27 pitch)
- Line Printer

IBM AS/400-Fonts in Future III:

- IBM 3816 resident fonts:
- Gothic Orator
 - Katakana Gothic Serif
 - Courier Boldface
 - Prestige Essay
 - Script Document
 - OCR Letter Gothic
 - Roman Sonoran-serif

AS/400 line printer fonts:

- Gothic 10 und 15 cpi,
normal und bold

Your local dealer:



ABOUT CSP AG

As international successful company we offer you the best, individual solution for all requirements in *connectivity, form administration, printer languages, character sets and paper and printer control.*

Here you will find everything you need to connect your printers in LAN and Host environments: Ethernet, Token Ring, IBM 3270 Coax, IBM 5250 Twinax, Channel.

From pocket print servers to multi connectivity solutions for high-end printers, from external boxes and built-in solutions for all popular printer manufacturers. Likewise, from print servers, ideal for the majority of requirements, to customized special solutions. Numerous emulations and software solutions complete this world-wide unique range of products.

We develop and manufacture in Germany. This means competence, quality and best possible support – flexibility with no red tape. We keep in contact – so that we can get even better with and for our customers and partners.

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