Advanced Printing Solution With Multiple Printing Possibilities

The HSAjet CB is a PCI-based controller board to be mounted in a standard PC or in an HSA Industrial Print Controller (IPC). The HSAjet CB is an advanced and high-resolution printing solution with multiple printing possibilities. The HSAjet CB makes full colour printing with a print width of 72mm possible as well as monochrome printing (print width 288 mm with one CB and 576 mm with two CBs) possible.

The HSAjet CB is extremely fast and shows new possibilities, e.g. additional time zones (when using two boards). Furthermore, the HSAjet CB can be operated via networks and in connection with databases and makes form- and page printing possible.

IPC has a design of stain-less steel and can easily be implemented in production areas. As your HSAjet CB interface you can either use a PC monitor, a terminal, a user-defined touch screen interface, or serial communication.

Advanced Technology

The HSAjet CB controls printheads using the Xaar and SII printing technologies based on the piezo inkjet technology, as well as HP printheads based on the thermal inkjet technology. These inkjet printheads are capable of handling a wide variety of ink types, including oil-based, solvent, and UV inks. In addition, it can be used to print onto almost any surface such as porous and non-porous material, and the print resolution is extremely high when using these printing technologies. In fact, the resolution is up to 600 dpi.

Print Whatever You Like

The HSAjet CB is capable of satisfying multiple printing needs. You can print text with unlimited numbers of text fields, logos, counters, unlimited numbers of barcodes, dates, and 2D barcodes, and printing both horizontally and vertically is possible. Furthermore, the HSAjet CB enables form printing and printing from databases, e.g. addresses. With the HSAjet CB you can create an unlimited amount of messages and you can create the messages from templates. The maximum length for each message is 4500 mm. The HSAjet CB together with the HSA

HSAjet CB

Features	HSAjet CB XJ128	HSAjet CB XJ126	HSAjet CB XJ500	HSAjet CB SII IRH Series	HSAjet CB HP
text printing	yes	yes	yes	yes	yes
max. number of text-fields	unlimited	unlimited	unlimited	unlimited	unlimited
text length (characters)	255	255	255	255	255
logo printing	yes	yes	yes	yes	yes
counter printing	yes	yes	yes	yes	yes
barcode printing	yes	yes	yes	yes	yes
max. number of barcodes	unlimited	unlimited	unlimited	unlimited	unlimited
date printing	yes	yes	yes	yes	yes
database / mail function	yes	yes	yes	yes	yes
form printing	yes	yes	yes	yes	yes
multiple fonts	yes	yes	yes	yes	yes
message creation from template (prompt)	yes	yes	yes	yes	yes

Performance

	XJ128	XJ126	XJ500	SII IRH Series	HP
max. number of messages	unlimited	unlimited	unlimited	unlimited	unlimited
max. message length (mm)	4,500	4,500	4,500	4,500	2,000
max. print height (mm)	280 mm per card	140 mm per card	280 mm per card	280 mm per card	52.8 mm per card
print speed (m/min)	35	43	34	35.5	30
drop size (pL)	80	80	80	38	40
max. resolution (dpi)	185	185	180	180/300	600
memory capacity (mb)	1 GB	1 GB	1 GB	1 GB	1 GB
ink firing frequency (kHz)	4.25	5.00	4.00	7.00	12.50
max. controllable print heads	16 x XJ128	8 x XJ126	4 x XJ500	4 x SII	4 x HP

Technology

	XJ128	XJ126	XJ500	SII IRH Series	HP
piezo	x	x	x	x	
thermal					x

Printing Orientation

	XJ128	XJ126	XJ500	SII IRH Series	HP
side-to-side	yes	yes	yes	yes	(yes)
from-up-to-down	yes	yes	yes	yes	yes
distance to print surface, max.	3 mm	3 mm	3 mm	3 mm	3 mm
distance to print surface, min.	0.5 mm	0.5 mm	0.5 mm	0.5 mm	0.5 mm

Screen Interface

	XJ128	XJ126	XJ500	SII IRH Series	HP
PC monitor	yes	yes	yes	yes	yes
terminal	yes	yes	yes	yes	yes
touch screen	yes	yes	yes	yes	yes

Interface

	XJ128	XJ126	XJ500	SII IRH Series	HP
RS232	yes	yes	yes	yes	yes
RS485	optional	optional	optional	optional	optional
ethernet	yes	yes	yes	yes	yes

Encoder

	XJ128	XJ126	XJ500	SII IRH Series	HP
quadratur	yes	yes	yes	yes	yes

Mechanical Dimensions

	XJ128	XJ126	XJ500	SII IRH Series	HP
L x W x H - controller (mm)	IPC: 285 x 175 x 350	IPC: 285 x 175 x 350	IPC: 285 x 175 x 350	IPC: 285 x 175 x 350	IPC: 285 x 175 x 350
mechanical support / brackets	yes	yes	yes	yes	yes

Power Supply

	XJ128	XJ126	XJ500	SII IRH Series	HP
external / internal	internal	internal	internal	internal	internal
voltage (V)	110 / 230	110 / 230	110 / 230	110 / 230	110 / 230
frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60

Environmental Conditions

	XJ128	XJ126	XJ500	SII IRH Series	HP
operating temperature range (°C)	10 - 40	10 - 40	10 - 40	10 - 40	10 - 40
humidity (%)	10 - 90 non-condensing	10 - 90 non-condensing	10 - 90 non-condensing	10 - 90 non-condensing	10 - 90 non-condensing
IP approval (rating)	54	54	54	54	54
CE compliant	yes	yes	yes	yes	yes

Warranty

	XJ128	XJ126	XJ500	SII IRH Series	HP
equipment	1 year	1 year	1 year	1 year	1 year
service (minimum)	5 years	5 years	5 years	5 years	5 years
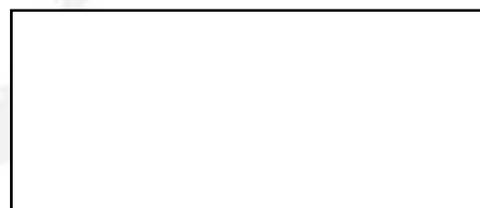
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