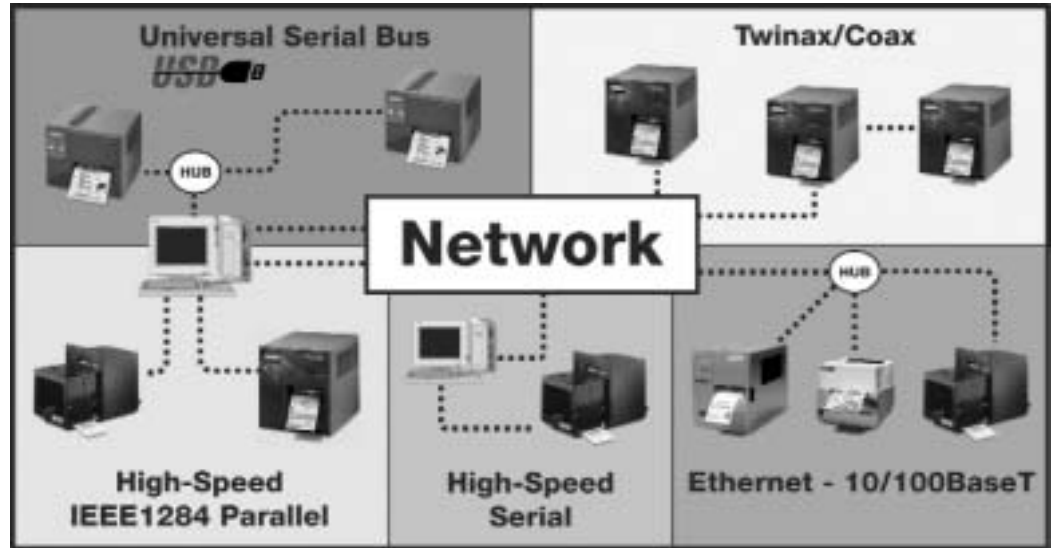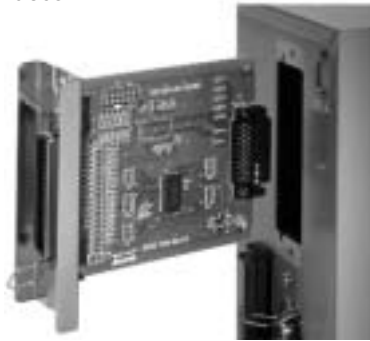# Plug-In Interface Cards

All SATO Industrial Printers use Plug-In Interface Cards for maximum flexibility. They can be easily changed in the field in a matter of seconds to accommodate any of the commonly used host interfaces.

IEEE1284 - High-Speed Parallel

Connector:
Standard Centronics 36 Pin (Female)
Transmission Speed:
Up to 450k bytes per second
Port Type Compatibility:
ECP/Bi-Directional compatible
Printer Cable Type:
IEEE1284 Compliant Parallel
(Cable not included)
Max. Printer Cable Length:
10 feet (3 meters)

USB - Universal Serial Bus

Connector:
Standard Type B
Port Compatibility:
USB 1.0 on a PC running Windows 98 or 2000 only
Transmissin Speed:
Up to 12 MBits per second
Printer Cable Type:
USB A/B (6 feet cable supplied with interface)
Max. Cable Length:
6 feet to printer or Hub; up to 127 devices may be daisy chained using USB Hubs
USB Software:
Software/drivers supplied on a CD - Plug & Play Compatible

Serial Interfaces

RS232 - High-Speed

Connector:
Standard DB-25S (Female)
Settings via dip switch on the board:
Baud Rates: 9600, 19200, 38400, 57600
Communication Protocols:
Ready/Busy, Xon/Xoff, SATO Status 2, 3 and 4
Printer Cable Type:
NULL MODEM cable when connected to a standard PC RS232C port. (Cable not included)
Max. Printer Cable Length:
50 feet at up to 19,200 baud rate. Determined by cable quality and baud rate. Refer to the ANSI/EIA RS232C spec for more info.

RS422/485

Connector:
2 Standard DB-9 (Female); Supports Multi-Drop of up to 32 printers
Settings via dip switch on the board:
Baud Rates: 2400, 4800, 9600, 19200
Parity: ODD, EVEN, NONE
Stop Bits: 1 or 2 / Data Bits: 7 to 8
Communication Protocols:
Ready/Busy, Xon/Xoff, SATO Status 3
Printer Cable Type:
RS422/485 Standard Cable (Cable not included)
Max. Printer Cable Length:
3,900 Feet

SATO Plug-In Interface Cards

Ethernet Connections

10BaseT/100BaseTX

Connector: RJ-45 on the interface (100BaseTX & 10BaseT)
Cabling: CAT5 (Cable not included)
Incl. WPC_Plus™ Web-Based Server

SATO's new WPC_Plus™ provides unparalleled control over your bar-code printing application from virtually anywhere.

Features:
- Printer Setting Control
- Real-Time Printer Status
- Easy Acces via Internet

802.11b Wireless

Variable Data Rates: 11, 5.5, 2 and 1Mbps
Frequency Band: 2.4GHz ISM Band
Wired Equivalent Privacy: 128-bit, 64-bit (compatible with 40-bit), none
SensitivityType: AWGN, 8E-2 PER
Sensitivity Rates: -91dBm at 1Mbps, -88dBm at 2 Mbps, -87dBm at 5.5Mbps, -84dBm at 11Mbps
Range: 100m Indoor, 300m Outdoor
Incl. WPC_Plus™ Web-Based Server

SATO's new WPC_Plus™ provides unparalleled control over your bar-code printing application from virtually anywhere.

Features:
- Printer Setting Control
- Real-Time Printer Status
- Easy Acces via Internet

External Print Server

100baseTX/10baseT print server w/ 1 parallel & 1 serial port & TCP/IP, IPX/SPX, NetBEUI, NetBIOS IP, DLC/LLC, Direct Mode IP/IPX.
Physical:
2.5" (6.4 cm) x 1" (2.5 cm) x 4.4" (11.2 cm)
Electrical:
Input Power: 1A@5VDC/
External Power Supply: 115VAC (U.S.)
I/O Compatibility:
IEEE1284 bi-directional Centronics-parallel (36-pin Centronics 1284B female connector)
RS232 serial port (RJ45 connector) with pro-gram selectable baud rates to 57.6k bps

General Ethernet Specifications:

Protocols Supported
TCP/IP, IPX/SPX, Direct Mode IPX/IP, DLC/LLC, NetBEUI, NetBIOS/IP
Support Materials:
- Printed Quick Start Guide
- CD incl. Administrators Manual (PDF), XAdmin Utility Software, Port Monitor Software
Compatibility:
HP's JetAdmin and Web JetAdmin printer management software *Note: All protocols are simultaneously active*
Management
- WP-Admin utility for easy configuration from Windows
- HP JetAdmin NetWare and TCP/IP Windows-based utility
- XAdmin TCP/IP Windows-based utility
- Web XAdmin web-browser facility (incl. multilingual capability)
- HP Web JetAdmin Windows software
- Print server console accessible via serial port, TELNET or NetWare, NetWare PCONSOLE, PRINTDE, NWADMIN
- Simple Network Management Protocol (SNMP) MIB I & II, IP or IPX
Other Features
- IP address configuration via serial port, arp, rarp, DHCP, BOOTP, XAdmin utility, HP JetAdmin, NetWare, and DEC MOP
- Automatic detection of NetWare frame type can be forced
- On-line HELP
- Sophisticated diagnostics, incl. protocol tracing & crash dump
- Test page and factory reset switch

Twinax/Coax

For all SATO printers that support plug-in interfaces
Converter:
EBCDIC to ASCII data stream translation
Connector:
Supplied with Twinax and Coax connector
Twinax Printer Emulations:
IBM 5225, 5256, 4214, 3812/5219
Coax Printer Emulations:
IBM 3287, 3262
Multiple Host Attachments:
IBM Twinaxial (S/3x & AS400) / Coaxial (3174 & 3274 Controllers)