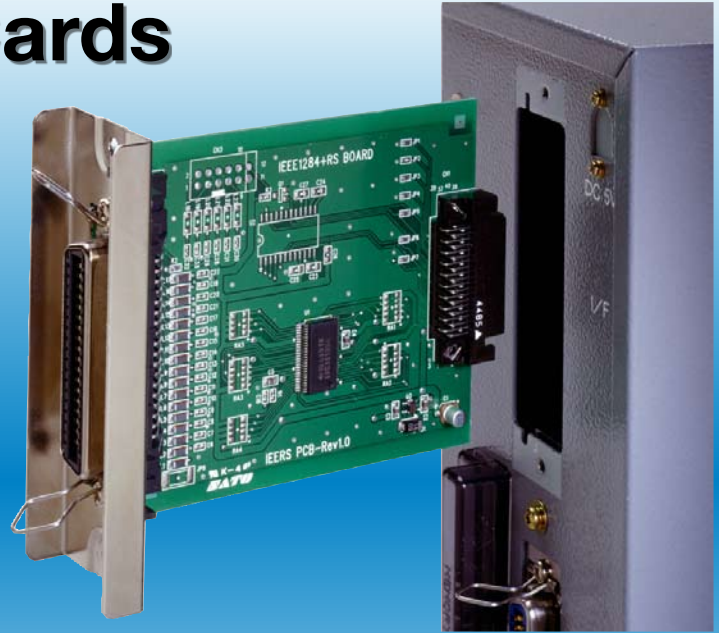# Plug-In Interface Cards

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*

Connector:
USB Type B

Transmission Speed:
1.5 Mbps

Printer Cable Type:
USB Type A Male to USB Type B Male
(Cable not included)

Max. Printer Cable Length:
10 feet (3 meters)

*Factory Installation Required

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 interface (100BaseTX & 10BaseT)

Cabling:
CAT5 (Cable not included)

Web-Based Server
Unparalleled control over printer administration from virtually anywhere.

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

802.11b/g Wireless

Variable Data Rates:
11, 5.5, 2 and 1Mbps

Frequency Band:
2.4GHz ISM Band

Wired Equivalent Privacy:
128-bit, 64-bit

WPA:
TKIP, IEEE802.1x TLS

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

Web-Based Server
Unparalleled control over printer administration from virtually anywhere.

Authentication and Security
WEP, WPA-PSK (TKIP or AES), WPA2-PSK (AES), WPA with EAP-TLS, WPA with EAP-LEAP, CKIP (Cisco Key Integrity Protocol), CMIC (Cisco Message Integrity Check)

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

General Ethernet Specifications:

Protocols Supported
• TCP/IP, Netware, SNMP, SMTP, NetBEUI, NetBIOS, TCP

Support Materials:
• Printed Quick Start Guide
• CD incl. Administrators Manual (PDF), Admin Manager, Port Monitor Software

Compatibility:
• HP's JetAdmin and Web JetAdmin printer management software
• Admin Manager for easy configuration from Windows
• Admin Manager web-browser facility (incl. multilingual capability)
• 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

Features
• IP address configuration via serial port, arp, rarp, DHCP, BOOTP, Admin Manager, HP JetAdmin, NetWare
• On-line HELP
• Diagnostics, incl. protocol tracing & crash dump
• Test page and factory settings switch

Plug-In Interface Compatibility:

	M84*Pro*	GT408*e* GT412*e* GT424*e*	CL408*e* CL412*e* CL608*e* CL612*e*	M5900RV*e*	M10*e*	CT400 CT410	XL400*e* XL410*e*
IEEE1284 Parallel	✓	✓	✓	✓	✓	✓	✓
RS232C Serial	✓	✓	✓	✓	✓	✓	Standard
Enhanced Ethernet	✓	✓	✓	✓	✓	✓	✓
Enhanced USB	✓		✓	✓		✓	✓
Wireless 802.11g	✓	✓	✓	✓	✓	✓	✓
RS422/485	✓	✓	✓	✓	✓		✓
Ethernet Mini LAN		✓					