Interact Device Driver Guide

Description

Interact is a powerful and flexible HMI solution for factory floor machine control applications. CTC knows how important it is for OEMs and end users alike to maintain flexibility, so drivers are available for a wide range of programmable controllers (PLCs) and other intelligent equipment. Device Drivers are part of the standard Interact product and are packaged with the Application Manager.

This technical sheet lists all of the device drivers currently available for Interact. If you don't see the driver you need:

- Call CTC's Inside Sales Department at (513) 831-2340 for the latest information about drivers under development
- CTC's Professional Services (PCS) Department can write any driver you need for your application; just call the PCS Coordinator at (513) 831-2340 for details

- Write your own driver using CTC's Software Developer's Kit (SDK) – *for more information, see the SDK Software Technical Sheet*

Features and Specifications

- Automatically calculates optimum read/write blocks, acquisition levels, etc.
- Remote I/O, Serial, AT BUS and PC/104 connections supported
- Simultaneous execution of multiple drivers
- Exchange data among multiple drivers with the Data Transfer Module
- Addressing scheme native to the controller

- Substitute Tag Names for standard address references with built-in Tag Editor
- Tag names can be edited off-line via any text editor
- Tag names and direct addressing scheme can be utilized simultaneously
- Device Drivers can be created with the Software Developers Kit and can be run by using the User Device Interface
- Serial drivers connect to COM1-COM4

PLC	PLC/PC Connections	Interact Driver
ASCII Driver	▪ The ASCII Driver is a generic communication driver used to interface to devices that support ASCII communications. It communicates RS232/422/485 via a PC Serial Port.	ASCII
Allen-Bradley		
CompactLogix	▪ CompactLogix L32E/35E CPU via on-board Ethernet port	ABEN
	▪ CompactLogix CPU RS232 port via 1761-NET-ENI Module	ABEN
	▪ CompactLogix CPU RS232 port via RS232 PC Serial Port using DF1	ABDH
ControlLogix	▪ Ethernet via 1756-ENET Ethernet module	ABEN
	▪ ControlLogix CPU RS232 port via 1761-NET-ENI Module	ABEN
	▪ ControlLogix 5550 CPU RS232 port via RS232 PC Serial Port using DF1	ABDH
	▪ 1756-DHRIO module to ControlLogix 5550 CPU using SST Direct Link Card via Data Highway Plus	SSSD
FlexLogix	▪ Ethernet via 1788-ENBT PLC Communications Card	ABEN
	▪ Ethernet via 1761-NET-ENI Module to CPU RS232 port	ABEN
	▪ Programming Port via RS232 PC Serial Port	ABDH
Micrologix 1000/1200/1500	▪ Ethernet via 1761-NET-ENI Module to CPU RS232 port	ABEN
	▪ Programming Port via RS232 PC Serial Port	ABDH
PLC-2	▪ 1770-KF to 1771-KA via PC Serial Port	ABDH
	▪ 1771-KG via PC Serial Port	ABDH
	▪ SST Direct Link Interface Card via Data Highway/Data Highway Plus *(see Third Party Interface section for details)*	SSSD*
	▪ 1771 Remote I/O Channel via ABR-3200/5 Interface Module available from CTC	ABR
PLC-3	▪ 1775-KA or 1770-KF2 via PC Serial Port	ABDH
	▪ SST Direct Link Interface Card via Data Highway/ Data Highway Plus *(see Third Party Interface section for details)*	SSSD* ABR
	▪ 1771 Remote I/O Channel via ABR-3200/5 Interface Module available from CTC	
PLC-5	▪ Ethernet PLC-with on-board Ethernet port or with a 1771-ENET Ethernet Interface Module	ABEN
	▪ Ethernet via 1761-NET-ENI Module to CPU RS232 port	ABEN
	▪ 1770-KF2 via PC Serial Port	ABDH
	▪ Datalink Technologies DH+ Interface Card via PC Serial Port *(see Third Party Interface section for details)*	ABDH ABDH
	▪ Channel 0 (25 pin port) via RS232 PC Serial Port	ABDH
	▪ SST Direct Link Interface Card via Data Highway/Data Highway Plus *(see Third Party Interface section for details)*	SSSD* ABR
	▪ 1771 Remote I/O Channel via ABR-3200/5 Interface Module available from CTC	ABDH
	▪ Datalink Technologies 1771 Remote I/O Interface Card via PC Serial Port *(see Third Party Interface section for details)*	
PLC-5/250	▪ SST 5136-SD Interface Card	SSSD*
SLC 501	▪ Programming port - DH-485 connection via PC Serial Port	SLC5
	▪ Remote I/O 1747-SN via ABR-3200/5 Interface Module available from CTC	ABR
SLC 502	▪ Programming port - DH-485 connection via PC Serial Port	SLC5
	▪ Remote I/O 1747-SN via ABR-3200/5 Interface Module available from CTC	ABR
SLC 503	▪ Programming port - DH-485 connection via PC Serial Port	SLC5
	▪ Channel 0 (9-pin port) via RS232/485 PC Serial Port (DH-485)	SLC5
	▪ Channel 0 (9-pin port) via RS232/485 PC Serial Port (DF1)	ABDH
	▪ Remote I/O 1747-SN via ABR-3200/5 Interface Module available from CTC	ABR

PLC	PLC/PC Connections	Interact Driver
SLC 504	▪ Channel 0 (9-pin port) via RS232/485 PC Serial Port (DH-485)	SLC5
	▪ Channel 0 (9-pin port) via RS232/485 PC Serial Port (DF1)	ABDH
	▪ Datalink Technologies DFK-1000-1/DL2000 (DH+ or RIO)	ABDH*
	▪ SST Direct Link Interface Card via Data Highway/Data Highway Plus	SSSD*
	▪ Remote I/O 1747-SN via ABR-3200/5 Interface Module available from CTC	ABR
Allen-Bradley (cont.)	▪ On-board Ethernet 10BaseT port	ABEN
SLC 505	▪ Ethernet via 1761-NET-ENI Module to CPU RS232 port	ABEN
	▪ Channel 0 (9-pin port) via RS232/485 PC Serial Port (DH-485)	SLC5
	▪ Channel 0 (9-pin port) via RS232/485 PC Serial Port (DF1)	ABDH
	▪ Remote I/O 1747-SN via ABR-3200/5 Interface Module available from CTC	ABR
Bailey Distributed Controls	▪ Network 90 Computer Interface Unit (CIU) via PC Serial Port**	UDI
Bristol Babcock	▪ RS232/422 Communication Port via PC Serial Port	Consult Factory
CEGELEC GEM80	▪ RS232/422 Communication Port via PC Serial Port**	UDI
Compumotor / Parker		
6000 Series	▪ Port 1 and 2 via RS232 PC Serial Port point-point	CMOT
	▪ Port 2 via RS422/485 PC Serial Port point-point or multi-drop	CMOT
AT6XX0 Bus Based Controller	▪ AT Bus Card	CMOT
6K Controllers	▪ Port 1 via RS232 PC Serial Port point-point	CMOT
	▪ Port 2 via RS422/485 PC Serial Port point-point or multi-drop	CMOT
	▪ On board 10BaseT Ethernet Port	CMOT
ACR9000	▪ Ethernet via on-board Ethernet port (EtherNet/IP)	ACREN
COMPAX Servo System	▪ RS232/485 port via PC Serial Port	ASCII
Compax3 Drive Controller	▪ RS232/485 port via PC Serial Port	ASCII
Gemini GT/GT6/GV/GV6	▪ RS232/485 via RS232 PC Serial Port	UDI (Gem)
	▪ Port 1 via RS232 PC Serial Port point-point	CMOT
Gemini GT6K/GV6K	▪ Port 2 via RS422/485 PC Serial Port point-point or multi-drop	CMOT
	▪ On board 10BaseT Ethernet Port	CMOT
IBE Series Motors	▪ RS232/485 via RS232 PC Serial Port	ASCII
ViX Servo Drive	▪ RS232/485 via RS232 PC Serial Port	ASCII
Control Technology Corp.		
2600 and 2700 Series	▪ Controller RS232 port via RS232 PC Serial Port	CTECH
Delta Tau PMAC	▪ RS232/422 Communication Port via PC Serial Port	PMAC
DeviceNet	▪ SST Direct Link Interface Card 5136-DN via Device Net Communication as Master or Slave (*See Third Party Interface section for details*)	DVNT*

PLC	PLC/PC Connections	Interact Driver
Emerson		
FX Series	▪ RS232/422 FX Communication Port via PC Serial Port**	UDI
Axima Multi-Axis Servo	▪ RS232/422 Communication Port via PC Serial Port	MBUS
E Series Servo	▪ RS232/422 Communication Port via PC Serial Port	MBUS
Galil	▪ RS232/422 Communication Port via PC Serial Port	GALI
General Electric		
VersaMax IC200CPU001	▪ Port 1 RS232 via RS232 PC Serial Port	GESN
	▪ Port 2 RS485 via RS485 PC Serial Port	GESN
Series 90 (Micro, 9030 and 9070)	▪ RS422 Communication Port via PC Serial Port	GESN/GSNX
	▪ CMM311 Communication Coprocessor RS232/422 via PC Serial Port	GECM/GESN
Series 6	▪ CCM-2 via PC Serial Port	GECM
Genius I/O	▪ Genius LAN via PCIM AT Interface Card available from GE	GENIUS*
Giddings & Lewis		
MMC	▪ LINK900 - RS232/485 to User Port 2. Supports multi-drop communications. ***Note:** Requires COMM900 software on PLC available from Giddings & Lewis*	GLP9
Pic 90	▪ NET900 - network connection via ARCNET Card, available from Giddings & Lewis	GLP9*
	▪ LINK900 - RS232 to User Port 2 or Serial Communication Module via PC Serial Port. Supports multi-drop communications. ***Note:** Both require COMM900 software on PLC available from Giddings & Lewis*	GLP9
Pic 900	▪ NET900 - network connection via ARCNET Card, available from Giddings & Lewis	GLP9*
	▪ LINK900 - RS232 to User Port 2 or Serial Communications Module via PC Serial Port. Supports multi-drop communications. ***Note:** Both require COMM900 software on PLC available from Giddings & Lewis*	GLP9
Honeywell		
DCS Gateway 9000	▪ RS232/422 Communication Port via PC Serial Port**	UDI
620-16	▪ RS422/485 via ModBus built-in cards (for other models, use a 422/485 COMM card)	MBUS
620-36	▪ RS422/485 via ModBus built-in cards (for other models, use a 422/485 COMM card)	MBUS
IDEC Micro3	▪ RS232 Communication Port via PC Serial Port **	UDI
Indramat		
CLC-D	▪ X27 RS232 Port via RS232 PC Serial Port	ICLC
	▪ X28 RS232/422/485 Port via PC Serial Port	ICLC
CLC-P01	▪ X27 or X28 RS232 Port via RS232 PC Serial Port	ICLC
	▪ AT ISA bus based card via backplane	ICLC
CLC-P02	▪ X27 or X28 RS232 Port via RS232 PC Serial Port	ICLC
	▪ PC/104 bus based card via backplane	ICLC
PPC	▪ Ethernet via Controller's on-board Ethernet Port	IPPC
Klockner Moeller	▪ Programming Interface (PRG) port via RS232 PC Serial Port with any PS416 Programmable Controller	KLOK

PLC	PLC/PC Connections	Interact Driver
Koyo		
DL05	▪ CPU DirectNET serial 232 Port 1 or 2 via PC Serial Port	TICM
	▪ Ethernet via PLC H0-ECOM Module	ECOM
DL06	▪ CPU DirectNET serial 232 Port 1 or 2 via PC Serial Port	TICM
DL105	*Not Supported*	N/A
DL205	▪ CPU DirectNET serial 232/422 Port 1 or 2 via PC Serial Port *Note: DL230 CPU does not support DirectNET communication*	TICM
	▪ DCM Module RS232/422 via PC Serial Port	TICM
	▪ Ethernet via PLC H2-ECOM Module	ECOM
DL305	▪ DL340 CPU Only, DirectNET serial 232 Port 1 or 2 via PC Serial Port	TICM
	▪ DCM Module RS232/422 via PC Serial Port	TICM
DL405	▪ CPU DirectNET port serial 232/422 via PC Serial Port	TICM
	▪ DCM Module RS232/422 via PC Serial Port	TICM
	▪ Ethernet via PLC H4-ECOM Module	ECOM
Mitsubishi		
A Series (A1, A2, A3)	▪ AJ71C24 Computer Interface Module via PC Serial Port	MITA
	▪ Directly to PLC (RS422) via PC Serial Port	MIPA
	▪ Directly to PLC MelsecNet via A7BDE-A3N Programmable Controller Option Card	MITS*
	▪ Directly to PLC (RS422) via A7BDE-RS4 Serial Port Interface Board	MITS*
	▪ Directly to PLC MelsecNet via A7BDE-J7/P21/R21 MelsecNet Interface Board	MITS*
Mitsubishi (cont.)		
FX Series *FX0/FX0S* *FX0N* *FX/FX2C* *FX2N*	▪ Directly to PLC (RS422) via PC Serial Port	MIFX
Q Series	▪ Directly to PLC Programming Port (RS232) via PC Serial Port	MIPQ
Modicon		
M-84 *184* *384* *484* *584* *884* *984*	▪ RS485 multidrop ModBus via Serial Port	MBUS
	▪ ModBus Port via PC Serial Port	MBUS
	▪ ModBus Plus port via SA-85 PC Card available from Modicon	MBPL*
	▪ ModBus Plus port via Panel-Tec PC/104 ModBus Plus Card	MBPL*
Quantum	▪ RS232 ModBus Port via PC Serial Port or RS485 multidrop	MBUS
	▪ Open Modbus TCP via Ethernet Port on 140 NOE 211 00 or 140 NOE 251 00 Modules	MBEN
Momentum	▪ RS232 ModBus Port via PC Serial Port or RS485 multidrop	MBUS
	▪ Open Modbus TCP via Ethernet Port on 170CCC9x020 M1 CPU	MBEN

PLC	PLC/PC Connections	Interact Driver
OMRON SYSMAC Link	▪ Via LK21 network card	SLNK*
OMRON FINS/Host Link C Series		
CV / CVM1	▪ CV500 - LK203 Host Link Module, CPU Serial Port via RS232/485	FINS
CS	▪ CPU Serial Port via RS232	FINS
OMRON Host Link/ SYSMAC C		
CV/CVM1	▪ CV500-LK203 and CPU Serial Port set for C-Mode Communications	OMRN
C1000H/C2000H	▪ C500-LK203 and 3G2A6-LK201 Host Link Modules	OMRN
C200H/HS/Alpha	▪ C200H-LK201/LK202, CPU Serial Ports, Alpha Communication boards via RS232/485	OMRN
CQM1	▪ CPU Serial Port via RS232	OMRN
*C**K*	▪ 3G2A6-LK201/LK202 via RS232/485	OMRN
CPM1	▪ RS232/485 via CPM1-CIF01/CIF11 Cable	OMRN
Opto 22 *Mistic 200*	▪ G4LC32SER to COM0 via PC Serial Port ▪ G4LC32ARC via ARCNET	MIST MIST*
Profibus DP Slave	▪ L2 - DP Slave via SST Interface Card via Profibus *(see Third Party Interface section for details)*	PFBS*
Reliance		
R-Net	▪ R-Net Gateway via PC Serial Port	RELN
AutoMate	▪ Serial Communication Port CPU via PC Serial Port ▪ Serial Communication Module (45C203) via PC Serial Port	RELN RELN
AutoMax	▪ AutoMate Interface (57C417) via PC Serial Port	RELN
R-Net PC-Link	▪ M/N 45C124 Interface Module	RLNT*
Reliance DCSNet	▪ Automax Network Communication Module (57C404B) to PC Link Interface Module (57C445)	DCSNET
Siemens/TI		
S5 95	▪ Programming port via PC Serial Port current loop	SIEMPP
S5 100	▪ Programming port via PC Serial Port current loop	SIEMPP
S5 115	▪ Programming port via PC Serial Port current loop ▪ CP524/525 via PC Serial Port (RS232)	SIEMPP SIRK
S5 135	▪ Programming port via PC Serial Port current loop ▪ CP524/525 via PC Serial Port (RS232)	SIEMPP SIRK
S5 155	▪ Programming port via PC Serial Port current loop ▪ CP524/525 via PC Serial Port (RS232)	SIEMPP SIRK
S7 200	▪ PPI Port to PC Serial Port (RS232)	SPPI
S7 300/400	▪ Communication Port via Profibus DP Slave ▪ MPI Port Driver via HMI Adapter (6ES7972-0CA1O-0XA0 or 6ES7 972-0CA11-0XA0. Version 6ES7 972-0CA11-0XA0 of the adapter must be used for MPI Multi-drop support.	PFBS SHMI
305/405/425	▪ CPU direct serial (232/422)(point-to-point or multidrop) via PC Serial Port ▪ DCM Module (U-01DM) via PC Serial Port	TICM TICM
545	▪ RS232/422 COM Port via PC Serial Port ▪ Ethernet Port via CTI 2572 Ethernet TCP/IP Module	TICP TIEN

PLC	PLC/PC Connections	Interact Driver
560/565	▪ RS232/422 Communication Port via PC Serial Port	TICP
	▪ Ethernet Port via CTI 2572 Ethernet TCP/IP Module	TIEN
Series 500/505	▪ RS232/422 Communication Ports via PC Serial Port	TICP
	▪ Dual comm port module (Model 500-5029) via PC Serial Port	TICP
	▪ Ethernet Port via CTI 2572 Ethernet TCP/IP Module in Series 505	TIEN
Square D SY/MAX Serial *PLC 400, 650, 700, 200, 300*	▪ RS422 Communication Port via PC Serial Port	SQRD
Square D SY/MAX SY/LINK *PLC 400, 650, 700, 200, 300*	▪ SY/NET LAN via SF1-510 SY/LINK card	SDSL*
Telemecanique		
Uni-Telway	▪ Uni-Telway TSX SCA 62 via PC Serial Port	TELM
Premium Controllers	▪ RS485 Direct to TERM or AUX Port	TELE
Toshiba *T1 Series*	▪ RS232 Communication Port via PC Serial Port**	UDI
Toyopuc *PC1/PC2 Controllers*	▪ RS485 Communication Port via PC Serial Port**	UDI
User Device Interface (UDI)	▪ Example Development protocol User Device Interface Run-time (*user drivers written with Interact's Software Developers Kit)*	UDI
	▪ User-configurable to PC Serial Port or I/O Card	
Westinghouse *PC-2000*	▪ NLCP-2524/2525 via PC Serial (RS232) Port	SIRK
Westinghouse *PC-2000*	▪ Programming port via PC Serial Port	SIEMPP
Whedco Servo Controller	▪ RS232 Communication Port via PC Serial Port**	UDI
Yaskawa		
Genera ASCIII	▪ RS232/422 Communication Port via PC Serial Port	YASK
MP9 Controllers	▪ RS232/422/485 Communication Port via PC Serial Port	MP9

Note: All drivers that communicate via a PC Serial Port or PC/104 Interface Card are compatible with the P1/P2 PowerStation.

*   Requires additional third party communication card.
**   These drivers were written by CTC's Professional Consulting Group using the User Driver Interface (UDI) for specific applications.
    They are not distributed with the standard product but may be downloaded from the BBS or the FTP site for use.

Third Party Interfaces		
Manufacturer/PLC	**Workstation Interface**	**Interact Driver**
SST Industrial Communication Technologies		
(519) 725-5136		
A-B Data Highway/ Data Highway Plus		
Model No. 5136-SD-ISA	AT Card	SSSD
Model No. 5136-SD-104	PC/104	SSSD
Device Net		
Model No. 5136-DN-ISA	AT Card	DVNT
Model No. 5136-DN-104	PC/104	DVNT
Profibus DP Slave		
Model No. 5136-PFB-ISA	AT Card	PFBS
Model No. 5136-PFB-104	PC/104	PFBS
Datalink Technologies, Inc.		
(604) 632-4278		
A-B Data Highway Plus		
Model No. DL2000-KFX	Free-Standing (Serial Interface)	ABDH
Model No. DL-PC/104	PC/104	ABDH
Model No. DL-PC	AT Card	ABDH
A-B Remote I/O		
Model No. DL2000-KFX	Free-Standing (Serial Interface)	ABDH
Model No. DL-PC/104	PC/104	ABDH
Model No. DL-PC	AT Card	ABDH
Panel-Tec		
(256) 534-8132		
Modbus Plus		
PC/104 Modbus+	PC/104	MBPL

Note: Contact manufacturer for further details and pricing information.

If You Don't See Your Driver Listed…

CTC's Professional Consulting Services (PCS) Department develops a variety of custom interfaces for customer applications. Our PCS group can not only write a driver to meet your specific needs, but we can also convert your existing application to Interact, or build your application from the "ground up". Our staff is flexible and can set up a project development schedule to meet your needs -- whether we help develop your project at your facility or work on your project in our Applications Lab at CTC. Here are just a few of the interfaces the PCS group has recently completed. *For more information about these or similar projects, contact CTC's Professional Consulting Services Group at 1-513-831-2340.*

- Pager interface to a PageOne Terminal
- ASCII driver for PLCs without ASCII support
- Metler Toledo Weigh Scale
- Real-time video in Interact via a video digitizer card
- Miscellaneous Bar-Code Decoder Drivers for:
  - ➢ Allen-Bradley
  - ➢ DataLogix
  - ➢ Microscan
  - ➢ PMC-80
- IL1700 Photometer Driver
- GE Power Leader power monitor/controller
- Keithley Metrabyte PDMA32 driver
- Mitutoyo Measuring device driver
- Motorola People Finder Paging System