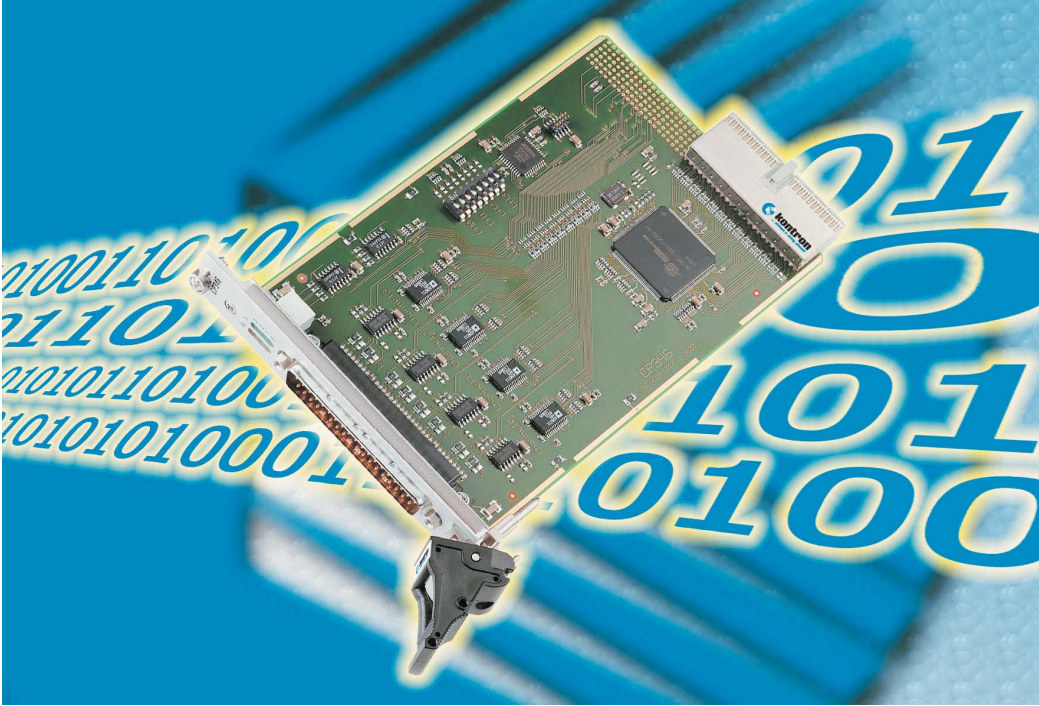# CP346

3U Quad UART 16550
Serial Controller

CompactPCI

➤ **Act fast**
A solution that is plug and play, as it is fully UART 16550 compatible.

➤ **Improve Communication**
Possibility of RS232, RS422, or RS485, and the option of a galvanically isolated version.

➤ **Live Effectively**
Four very cost effective serial channels.

If it's Embedded, it's Kontron.

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➤ Product Overview

Serial channels in an application are required very often to transfer data, get a COM port, control all common industrial serial devices, such as test and measurement projects, function generators, etc., or even to connect a modem, mouse, etc. to the system. The CP346 provides the latest technology to achieve these classic tasks, but still remains very cost effective.

Act Fast

Being fully UART 16550 compatible, a stable and reasonable solution is realized. As this is a widely used technology, most operating systems such as Windows®, Linux®, or VxWorks® have drivers available.

Improve Communication

Serial data communication usually means a combination of tasks and devices employed in a system. Therefore all modes, i.e. RS232, RS422 and RS485 in full duplex and half duplex are needed. The CP346 offers four independent channels. Each channel is individually configurable for all modes via mini dip switches.
To work in the widest range of markets, the CP346 is also available as a galvanic isolated version.

Live Effectively

Whenever serial communication is required in an application, the CP346 ensures a very cost effective solution.

Compact PCI Interface

32-bit/33 MHz, CompactPCI specification v.2.1 compatible; interrupt level INTA support, 5.0V operation and full Plug&Play compatibility

Characteristics

Controller:	High Performance Quad UART OX16PCI954
Functions:	4 independent serial channels
	RS232, RS422, RS485 individually configurable
Signals:	RS232: TxD, RxD, RTS, CTS, DTR, DSR, CD, RI, GND
	RS422/485 full duplex: TxD (A,B), RXD (A,B), GND
	RS422/485 half duplex: TRXD (A,B), GND
Serial I/O Data Interface:	16550 compatible UART's
	Up to 128 Byte transmit and receive FIFO's
Switch Inputs:	Per channel configurable:
	Serial Mode (RS232 or RS422/485)
	Full or Half Duplex in RS422/485 mode
Serial Baud Rates:	RS232: up to 115kbps
	RS422/485: up to 115kbps
Isolation:	2 kV between I/O and system
	(Galvanically isolated version)
Frontpanel:	37Pin DSUB connector
	Adapter cable 37Pin DSUB to 4x9Pin DSUB available
Rear I/O:	optional via J2 (TTL interface)

Software Support

Windows®XP, Windows®2000, Windows®NT, VxWorks®, Linux®

Common

PCI Bus:	5V only (key coding)
Dimensions:	100 mm x 160 mm (3U card size)
Temperature Ranges:	0° C to + 70° C (standard)
	-40° C to +85° C (extended)
	-55° C to +100° C (storage)
Climatic Humidity:	non-condensing 93% at 40°C acc. to IEC 60068-2-78
Weight:	170g
MTBF:	643,182 h acc. MIL-HDBK-217

➤ Ordering Information

Product	Description	Order No.
CP346	Quad UART 16550 serial CopmactPCI Controller for RS232, RS422, RS485	27168
CP346-E2	Quad UART 16550 serial CopmactPCI Controller for RS232, RS422, RS485, extended temperature range E2: -40° C to +85° C	27171
CP346-OPT	Quad UART 16550 serial CopmactPCI Controller for RS232, RS422, RS485, galvanically isolated	27169
CP345-OPT-E2	Quad UART 16550 serial CopmactPCI Controller for RS232, RS422, RS485, galvanically isolated, E2	27172
CP346-RIO	Quad UART 16550 serial CopmactPCI Controller for RS232, RS422, RS485, TTL signlas to Rear I/O	27170
CP-ADAP-CP346	Adapter Serial Port, DSUB37 - 4x DSUB9 for CP346	27248
KIT-CP346	Documentation and Windows® driver kit on CD-R [1]	27564
VXW-DRV-CP346	VxWorks driver CP346 for Tornado V. 2.2	27565
	1) KIT-CP346 free of charge downloadable from the Internet	

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