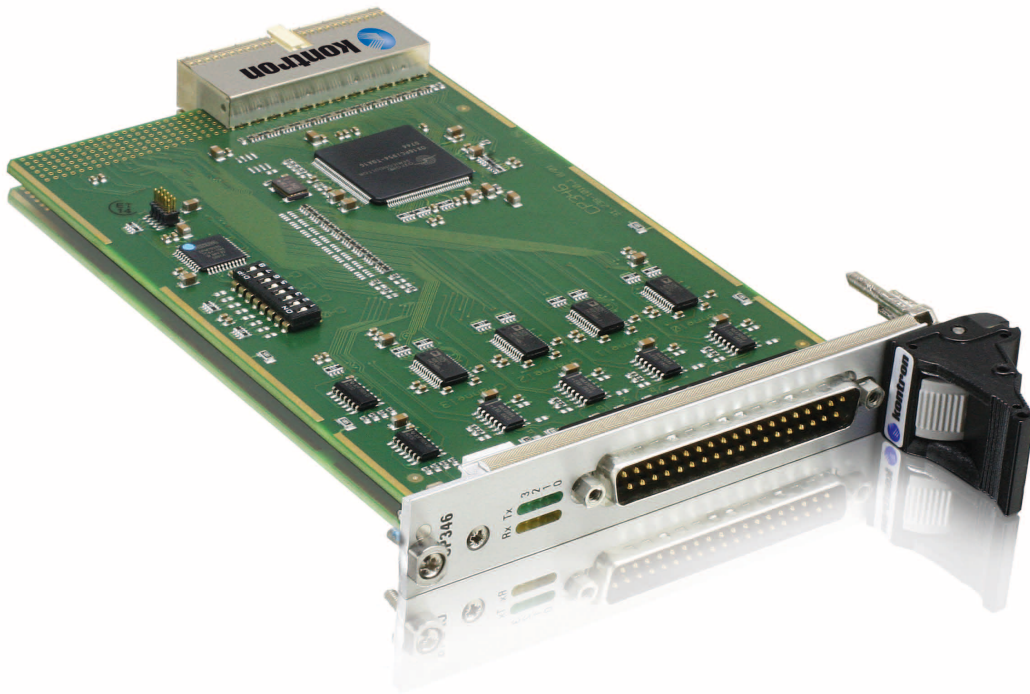


» CP346 «



3U Quad UART 16550 Serial Controller

» 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.

Serial channels in an application are required very often to transfer data, get a COM port, control industrial devices such as test and measurement units or function generators or even to connect a modem or a mouse 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.

Technical Information

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
CompactPCI Interface	32-bit/33 MHz, CompactPCI Core Specification PICMG 2.0 Rev 3.0 compatible; Interrupt level INTA support, 5V operation and full Plug&Play compatibility on J2 PICMG 2.0
Software Support	Windows®XP, Windows®2000, 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 +125°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

Article	Order-No.	Description
CP346	27168	Quad UART 16550 serial CompactPCI Controller for RS232, RS422, RS485
CP346-E2	27171	Quad UART 16550 serial CompactPCI Controller for RS232, RS422, RS485, extend. temp. range E2: -40°C to +85°C
CP346-OPT	27169	Quad UART 16550 serial CompactPCI Controller for RS232, RS422, RS485, galvanically isolated
CP346-OPT-E2	27172	Quad UART 16550 serial CompactPCI Controller for RS232, RS422, RS485, galvanically isolated, E2
CP-ADAP-CP346	27248	Adapter Serial Port, DSUB37 to 4x DSUB9 for CP346
KIT-CP346	27564	Windows® Driver Package, CP346 User's Manual
VXW-DRV-CP346	27565	VxWorks® 6.x Driver Package, CP346 User's Manual

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