

CP348



3U Quad UART 16550 Serial Controller

- ▶ Act fast: Plug and Play, fully UART 16550 compatible
- ▶ Improve Communication: RS232, RS422 or RS485 galvanically isolated
- ▶ Live effectively: four very cost effective Serial Channels

POSSIBILITIES START HERE

Serial channels in an application are required very often to transfer data, maintain and control industrial devices such as test and measurement units or function generators or provide remote access for network management.

Act Fast

CP348 is based on Exar's fully UART compatible low power chip XR17V354, optimized for plug&play use. Most operating systems such as Windows®, Linux®, or VxWorks® have drivers available. To make the migration from CP347 to CP348 an easy task, the chip is software compatible to the XR17D154 which has been used in the predecessor CP347. Hardware interfaces of CP348 and CP347 are compatible as well.

Improve Communication

CP348 supports all modes: RS232, RS422 full duplex, and RS485 half duplex. Four independent UART channels are individually configurable for all modes via mini dip switches. To work in the widest range of markets, the CP348 is galvanically isolated.

Live Effectively

Whenever serial communication is required in CompactPCI systems, CP348 is a very cost effective solution, long term available, and safe.

► TECHNICAL INFORMATION

CHARACTERISTICS	CONTROLLER FUNCTIONS SIGNALS	High Performance Quad UART XR17V354 4 independent serial channels: RS232, RS422, RS485 individually configurable 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 16550 compatible UARTs; up to 64 Byte transmit and receive FIFOs Per channel configurable: Serial Mode (RS232 or RS422/485); RS422 full-duplex, RS485 half-duplex with or without local echo RS232: up to 115kbps; 5422/485: up to 115kbps 2 kV between I/O and system 37Pin DSUB connector; Adapter cable 37Pin DSUB to 4x 9Pin DSUB available
COMPACTPCI INTERFACE	SERIAL I/O DATA INTERFACE SWITCH INPUTS	32-bit/33 MHz and 66 MHz, CompactPCI Core Specification PICMG 2.0 Rev 3.0 compatible; Interrupt level INTA support VI/O: universal (3.3 V / 5 V)
SOFTWARE SUPPORT	SERIAL BAUD RATES ISOLATION FRONTPANEL	Windows® 10, Windows® Server 2016/2019, Linux®, VxWorks®
COMMON	DIMENSIONS OPERATING TEMPERATURE STORAGE TEMPERATURE POWER CONSUMPTION CLIMATIC HUMIDITY WEIGHT MTBF	100 x 160 mm (3U card size) 0 °C to +70 °C (standard); -40 °C to +85 °C (extended) 55 °C to +125 °C 2 Watt (typical) Non-condensing 93 % at 40 °C (acc. to IEC 60068-2-78) 146 g 848,995 h acc. MIL-HDBK-217

► ORDERING INFORMATION

ARTICLE	DESCRIPTION
CP348	Quad UART 16550 serial CompactPCI Controller for RS232, RS422, RS485, galvanically isolated
CP348-E2	Quad UART 16550 serial CompactPCI Controller for RS232, RS422, RS485, galvanically isolated, E2
CP-ADAP-CP34X	Adapter Serial Port, DSUB37 to 4x DSUB9 for CP348
VXWORKS 6.9 DRIVER PACKAGE	via Web download
VXWORKS 7 DRIVER PACKAGE	via Web download

► GLOBAL HEADQUARTERS

Kontron Europe GmbH

Gutenbergstraße 2
85737 Ismaning, Germany
Tel.: +49 821 4086-0
Fax: +49 821 4086-111
info@kontron.com

www.kontron.com