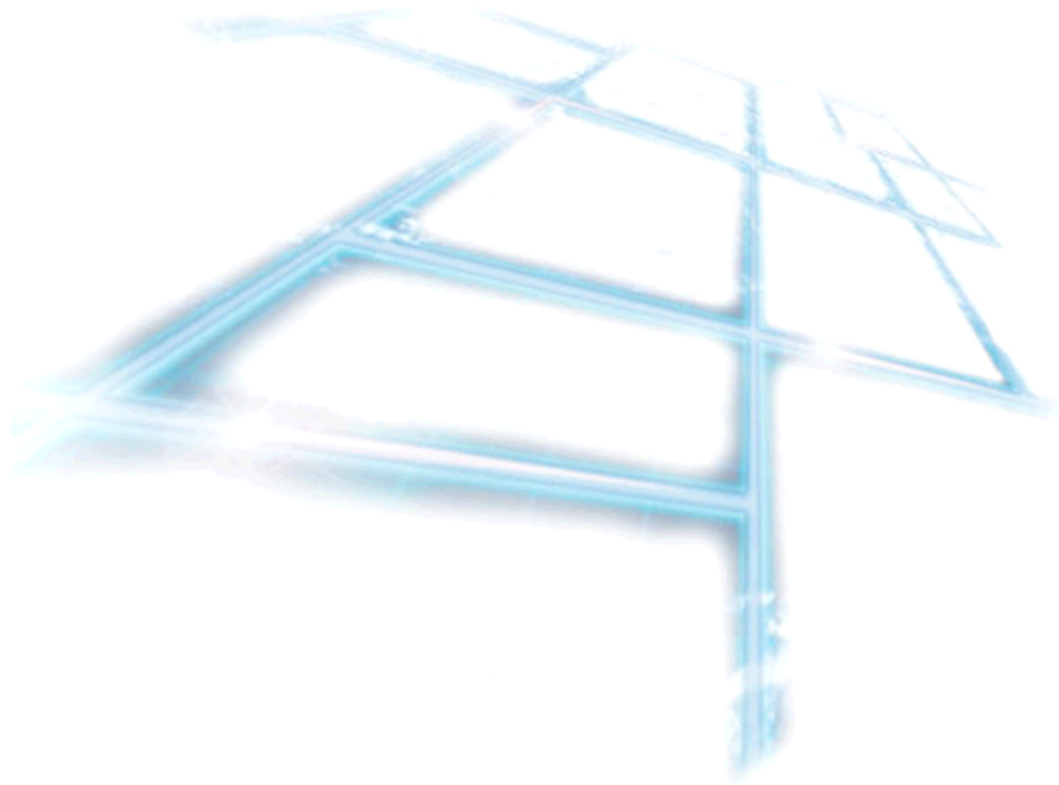


CLOCK/77 Amplifier



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Version 4.3.1*

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1. Overview

1.1 Introduction

Congratulations on the purchase of its QUANCOM CLOCK77-Amplifiers! You are now able to extend the cable length between the Clock77-receiver and the PC with a Clock77/ISA or Clock77/PCI up to about 100m to 200m.

1.2 Our experience is your profit

QUANCOM is specialised in development of hard- and software. QUANCOM has become one of the leading suppliers of measuring and automation technology in industry. At its design centres QUANCOM has developed an impressive range of products.

1.3 Extend of Delivery

- Clock77-Amplifier (PC module)
- Clock77-Amplifier (receiver module)
- QUANCOM CD with user manual (pdf)

If a component is missing please contact your dealer. QUANCOM reserves the right to change the extent of delivery without a preliminary announcement

2. Card information

2.1 General information

The signal is transformed by the two amplifier modules by the DCF77-receiver into a differential data signal, which will transfer long data line over a 100m to 200m without distribution.

2.2 Pin configuration

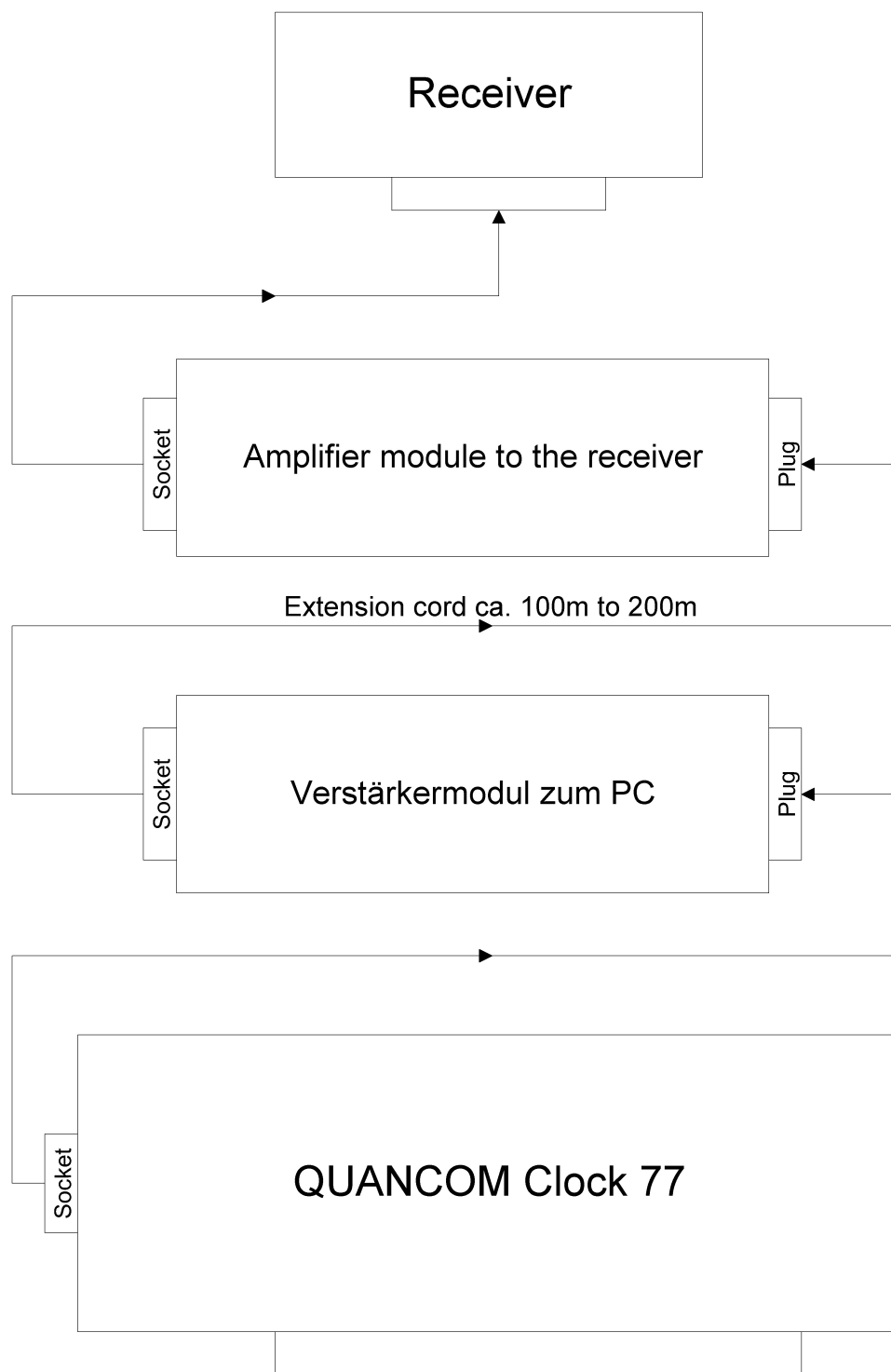
Amplifier module to the PC:

Plug	Socket
PIN1 = GND	PIN 1 = GND
PIN 2 = DO	PIN 4 = DI+
PIN 9 = VCC	PIN 5 = DI-
	PIN 9 = VCC

Amplifier module to the receiver:

Plug	Socket
PIN1 = GND	PIN 1 = GND
PIN 4 = DO+	PIN 2 = DI
PIN 5 = DO-	PIN 9 = VCC
PIN 9 = VCC	

3. Block diagram



4. Annex

4.1 Customer Communication and Help



Did you need help?

If you don't know how to go on during the installation or operation of your QUANCOM board please consult this user's guide first.

! Tip !

You can find an ASCII – text – file README.TXT, which includes changes made after printing of this user's manual on the QUANCOM installation CD.

! Important !

Informationen bereit: If you have further questions please contact our support team. For this case please prepare the following information:

- Exact type of the board.
- Version of the driver
- Version of the QLIB
- Operating system, hardware equipment and bus - system
- Name and version of the program, which reports the failure
- A detailed failure description. To make sure, please try to reproduce the failure, and describe exactly, which steps led to this failure.

Contact?

The QUANCOM internet website www.quancom.de

Per Fax
+49 22 36 / 89 92 - 49

Per E-Mail:
support@quancom.de

Adress:
QUANCOM INFORMATIONSSYSTEME GmbH
In der Flecht 14
50389 Wesseling

If you need urgent help call:QUANCOM Hotline
Germany:
0 22 36 / 89 92 - 20

Monday-Thursday
from 9:00 to 18:00
Friday
from 9:00 to 17:00

Actual drivers

You can find the latest version of QUANCOM software on our internet website www.quancom.de . You can also find a lot of information and "Frequently asked questions (FAQ's)" there., please check if you are using the latest software version of the QUANCOM software before contacting the QUANCOM support.

Repair

If you are not sure whether your QUANCOM board is defective please call the QUANCOM Hotline:

Tel.: +49 22 36 / 89 92 – 20

Before sending us the QUANCOM board to be repaired call:

Tel.: +49 22 36 / 89 92 – 20

If you send your QUANCOM board to us, please use original package or any other suitable package, to protect the contents against transport damage. You also need to send us a copy of the original bill and the RMA number.

You can shorten the repair time by sending us an exact failure description, so that a faster failure search is possible. Send your QUANCOM board directly to the service department of QUANCOM Informations-systeme GmbH.

4.2 Technisches Support Formular

If you have internet access please enter the following URL in your browser:

<http://www.quancom.de/quancom/qshop.nsf/techniksupport?OpenForm&eng>

else photocopy this form and use the copy of this form as a reference for your current configuration. Complete this form before contacting QUANCOM Informationssysteme GmbH for technical support help and our applications engineers may answer your questions more efficiently. If you are using any other QUANCOM hardware or software products please add them to this configuration form. Include additional pages if necessary.

Name: _____

Company: _____

Address: _____

Phone: _____

Fax: _____

Computer brand / Processor: _____

Operating system: _____

Display adapter: _____

Mouse: _____

QUANCOM board: _____

Other adapters installed: _____

Hard disk (capacity, free): _____

The problem is: _____

List any error messages: _____

The following steps will reproduce the problem

4.3 Documentation comment form

QUANCOM Informationssysteme GmbH would like you to comment on the documentation supplied with our products. This information helps us to provide you with quality products to meet your needs. Include additional pages if necessary.

Title: CLOCK/77 Amplifier

Edition date: 15.04.2009

Name: _____

Company: _____

Address: _____

Phone: _____

Fax: _____

Comment: _____

Mail to: support@quancom.de

Fax to: +49 2236 89 92 49

Address: QUANCOM Informationssysteme GmbH
In der Flecht 14
50389 Wesseling
Germany

4.4 Hardware and software configuration form

This form allows you to record the settings of your hardware and software. Complete this form each time you revise your software or hardware configuration, and use this form as a reference for your current configuration. Completing this form accurately before contacting QUANCOM Informationssysteme GmbH for technical support helps our application engineers answer your questions more efficiently.

• QUANCOM Product

Name / Name of board: _____
Interrupt Level: _____
DMA Channel: _____
Base I/O Address: _____
Operating system: _____

• Other information

Computer brand and Model: _____
Processor: _____
Clock Frequency: _____
Type of Video Board Installed: _____
DOS Version: _____
Programming Language: _____
Programming Language Version: _____

• Other Boards in System

Base I/O Address of other Boards: _____
DMA Channels of other Boards: _____
Interrupt Level of other Boards: _____

4.5 Trademarks

Linux is registered trade-mark of Linus Torvalds.

MS, MS-DOS, Microsoft, Visual Basic, Windows, Windows Vista/XP/2000/NT/ME/98/95 is registered trade-mark of Microsoft Corporation.

XT and PS/2 are trade-marks and IBM, OS/2 and AT are registered trade-mark of International Business Machines Corporation.

Intel, Pentium is registered trade-mark of Intel Corporation.

USB is registered trade-mark of USB Implementers Forum Inc.

JAVA is registered trade-mark of Sun Microsystems.

DELPHI and Pascal are registered trade-mark of Borland Corporation.

PCI is registered trade-mark of PCI Special Interest Group.

PCI Express is registered trade-mark of PCI-SIG.

National Instruments, LABVIEW is registered trade-mark of National Instruments Corporation.

Agilent VEE is registered trade-mark of Agilent Technologies.

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