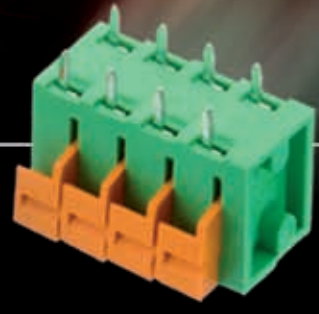




2009

**WERI**

CONNECTORS



**RoHS compliant**

## **Expect more!**

We are at your service!

Würth Elektronik differs in several aspects from all other component manufacturers:

**We deliver all catalogue products ex stock and our technical sales force can support your designs with market experience.**

## **more than you expect:**

- **Manufacturer of WERI Connectors and WEASSEMBLY Technique**
- **All-in-one-supplier for electromechanical components**
- **Design-In support through our technical sales force**
- **Design kits with free refill**
- **Samples free of charge**
- **Below MOQ service**
- **Products available ex stock**
- **Customized solutions**
- **Globally available**
- **Standardized order codes**
- **Fast response**



## Index

	<b>Pin &amp; Socket Headers</b> WR-PHD	<b>01</b>
	<b>Board to Board Fine Pitch Connectors</b> WR-BTB	<b>02</b>
	<b>ZIF Connectors &amp; Flat Flexible Cable</b> WR-FPC & WR-FFC	<b>03</b>
	<b>MiniModule Connectors</b> WR-MM	<b>04</b>
	<b>Box Header &amp; IDC Connectors</b> WR-BHD	<b>05</b>
	<b>Ribbon Flat Cable</b> WR-CAB	<b>06</b>
	<b>Mini Power Connectors</b> WR-MPC4	<b>07</b>
	<b>Micro Power Connectors</b> WR-MPC3	<b>08</b>
	<b>Wire to Board Connectors</b> WR-WTB	<b>09</b>
	<b>PLCC Sockets</b> WR-PLCC	<b>10</b>
	<b>Communication Connectors</b> WR-COM	<b>11</b>
	<b>Modular Jack Connectors</b> WR-MJ	<b>12</b>
	<b>D-SUB Connectors</b> WR-DSUB	<b>13</b>
	<b>Terminal Blocks</b> WR-TBL	<b>14</b>

# New Products

2009

**NEW!**

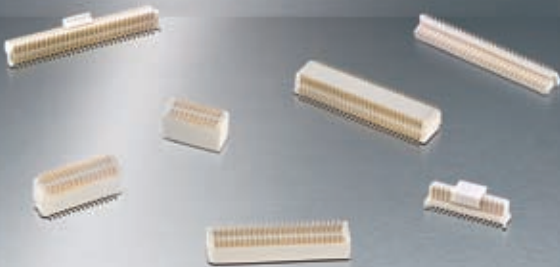


## WR-PHD

### Socket Header

- 2.54 mm horizontal type / 1 & 2 rows
- 2.54 mm vertical SMT type / h=3.7 mm
- 2.0 mm vertical SMT / h=4.5 mm

**NEW!**



## WR-BTB

### Fine pitch Board to Board Connector

- 0.8 mm pitch
- Tape & Reel packaging: ready for automatic placement
- Different pin no. available
- Different height between PCB possible

**NEW!**

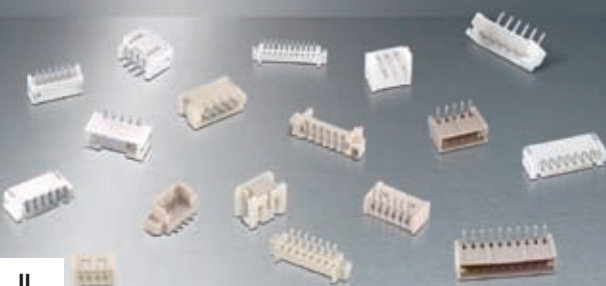


## WR-FPC

### Flat Flexible Cable

- 0.5 & 1.0 mm pitch
- From 6 up to 50 pins
- Type 1 & Type 2
- 4 different lengths available in 50 / 100 / 152 & 200 mm

**NEW!**



## WR-WTB

### SMT Wire to Board Connector

- Available in 1.25 / 1.50 & 2.0 mm pitch
- Straight & horizontal version
- Different pin no. available
- Horizontal through hole version available now in 1.25 / 1.50 & 2.0 mm

**NEW!**



## WR-COM

### IEEE 1394 Connector

- Through hole type
- Vertical, horizontal & upright position
- Vertical USB SMT type

**NEW!**

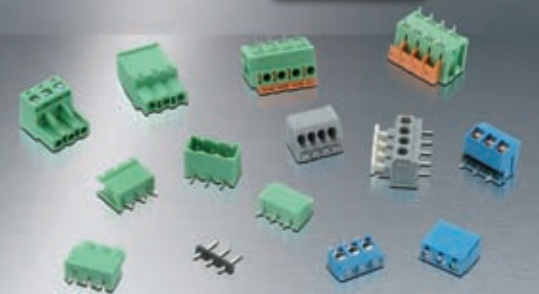


## WR-MJ

### A wider range of Modular Jack Connector

- 4P4C / 6PxC / 8P8C
- Shielded or unshielded
- Multi port: 1x2 / 1x4 / 2x1 / 2x2 / 2x4
- With or without LED (Standard & Bipolar LED)

**NEW!**

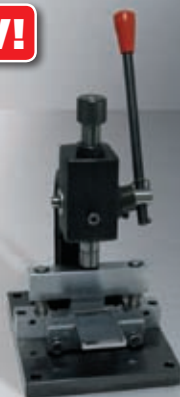


## WR-TBL

### A wider range of Terminal Block

- Wire protector type / pressure
- Rising cage clamp
- Pluggable type
- Screwless / Spring type
- Different pitches: from 2.54 mm to 10.16 mm

**NEW!**



## Tooling

- IDC Press to assemble the WR-MM series (see chapter 04)
- IDC Press to assemble the WR-BHD & WR-DSUB series (see chapter 05 & 13)
- Crimping tool to assemble the WR-WTB & WR-MPC connectors (see chapter 07, 08 & 09)

# WE present:

## Our internal sales team



Germany

**Micha Brodbeck**

Tel. +49 (0) 79 42 945 - 304  
micha.brodbeck@we-online.de



Switzerland

**Melanie Philipp**

Tel. +41 (0) 84 00 00 030  
melanie.philipp@we-online.de



Export

**Alexander Fischer**

Tel. +49 (0) 79 42 945-339  
alexander.fischer@we-online.de



England

**Stefanie Sperring**

Tel. +44 (0) 16 18 86 49 21  
stefanie.sperring@we-online.com



France

**Daniel Celliere**

Tel. +33 (0) 4 72 35 31-55  
daniel.celliere@we-radialex.com



Germany

**Hannah Cyron**

Tel. +49 (0) 79 42 945-307  
hannah.cyron@we-online.de



Export

**Melanie Belz**

Tel. +49 (0) 79 42 945-331  
melanie.belz@we-online.de



Export

**Sebastian Valet**

Tel. +49 (0) 79 42 945-330  
sebastian.valet@we-online.de



England

**Steven Lee**

Tel. +44 (0) 16 18 86 49 21  
steven.lee@we-online.com



France

**Genevieve Guion**

Tel. +33 (0) 4 72 35 31-56  
genevieve.guion@we-radialex.com



Germany

**Tobias Höhr**

Tel. +49 (0) 79 42 945-306  
tobias.hoehr@we-online.de



Export

**Katharina Böcker**

Tel. +33 (0) 4 72 35 31-78  
katharina.boecker@we-radialex.com



Benelux

**Cindy Derksen**

Tel. +31 (0) 73 629 15 70  
cindy.derksen@we-online.com



England

**Tara Lei**

Tel. +44 (0) 16 18 86 49 26  
tara.lei@we-online.com



France

**Josseline Louradour**

Tel. +33 (0) 4 72 35 31-62  
josseline.louradour@we-radialex.com



Germany

**Anett Kienitz**

Tel. +49 (0) 79 42 945-305  
anett.kienitz@we-online.de



Export

**Christina Braun**

Tel. +49 (0) 79 42 945-334  
christina.braun@we-online.de



Benelux

**Bea van Herwijnen**

Tel. +31 (0) 73 629 15 73  
bea.vanherwijnen@we-online.com



France

**Gérard Vincent**

Tel. +33 (0) 4 72 35 31-50  
gerard.vincent@we-radialex.com



Germany

**Markus Wolpert**

Tel. +49 (0) 79 42 945-301  
markus.wolpert@we-online.de



Export

**Ramona Breban**

Tel. +49 (0) 79 42 945-369  
ramona.breban@we-online.de



France

**Muriel Maison**

Tel. +33 (0) 4 72 35 31-51  
muriel.maison@we-radialex.com



<p><b>Italy</b></p> <p><b>Petra Rask</b> Tel. +39 (0) 4 71 066 -706 petra.rask@we-online.com</p>	<p><b>Brazil</b></p> <p><b>Martina Seitz</b> Tel. +55 (0) 11 92 14 82 42 martina.seitz@we-online.com</p>	<p><b>USA</b></p> <p><b>Kari O'Connor</b> Tel. +1 605 886 4385 kari.oconnor@we-online.com</p>	<p><b>China</b></p> <p><b>Zhuo Wang</b> Tel. +86 (0) 22 23 85 83 60 zhuo.wang@we-online.com</p>	<p><b>Hong Kong</b></p> <p><b>Jackie Chan</b> Tel. +852 (0) 23 27 84 88 jackie.chan@we-online.com</p>
<p><b>Singapore</b></p> <p><b>Geraldine Chan</b> Tel. +65 6 742 15 67 geraldine.chan@we-online.com</p>	<p><b>Taiwan</b></p> <p><b>Ivy Chen</b> Tel. +886 (0) 2 27 91 86 25 ivy.chen@we-online.com</p>			

## Here we are:

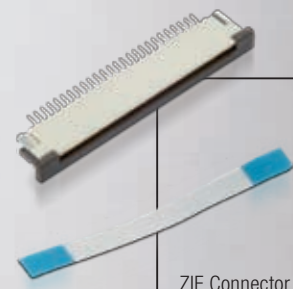
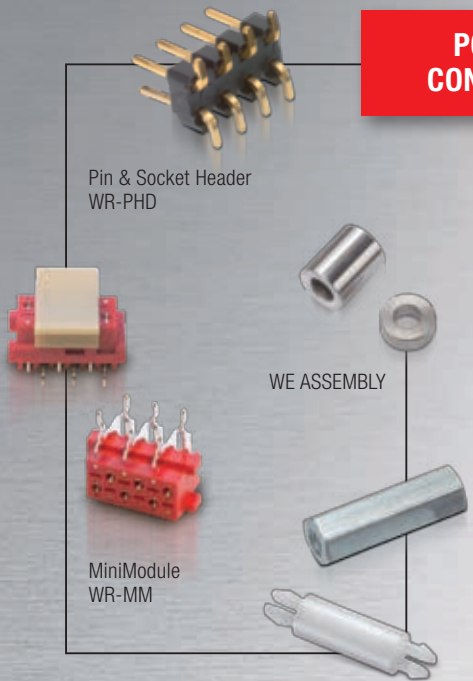
The sales team of Würth Elektronik



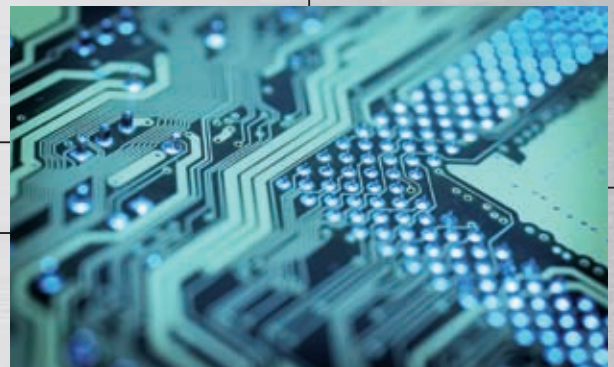
# From one Source

## Connector Applications at a Glance

### PCB/PCB CONNECTION



### DISPLAY, FLEXIBLE PCB



### CABLE/PCB CONNECTION

#### Single Conductor/ Crimp

#### Ribbon Cable/ IDC

Wire To Board  
WR-WTB

Box Header  
IDC Connector  
WR-BHD

### MAINS POWER SUPPLY





# INTERFACES

strong vibration

MiniModule  
WR-MM

Other communication

USB, MiniUSB, RJ45, MiniDIN WR-COM

Video

HDMI,DVI, WR-COM

USB

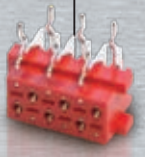
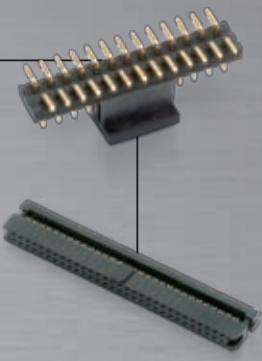
USB A /B, WR-COM

RS232/RS485

D-SUB WR-DSUB

Ethernet non intergrated

RJ45 WR-COM



# The Würth Elektronik eiSos Group



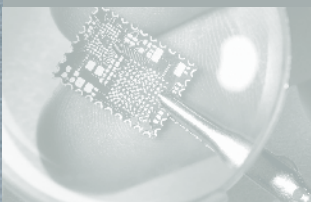
## The Würth Group

63.700 employees and 8.485 million € sales

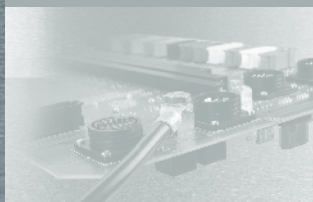
## The Würth Elektronik Group

7.640 employees and 369 million € sales

Circuit Board Technology



Intelligent Connecting Systems



**Würth  
Elektronik  
eiSos Group**

Photovoltaics



**Würth Elektronik iBE  
Automotive**



**Würth Elektronik eiSos  
EMC & Inductive Solutions**



**Würth Electronics Midcom**



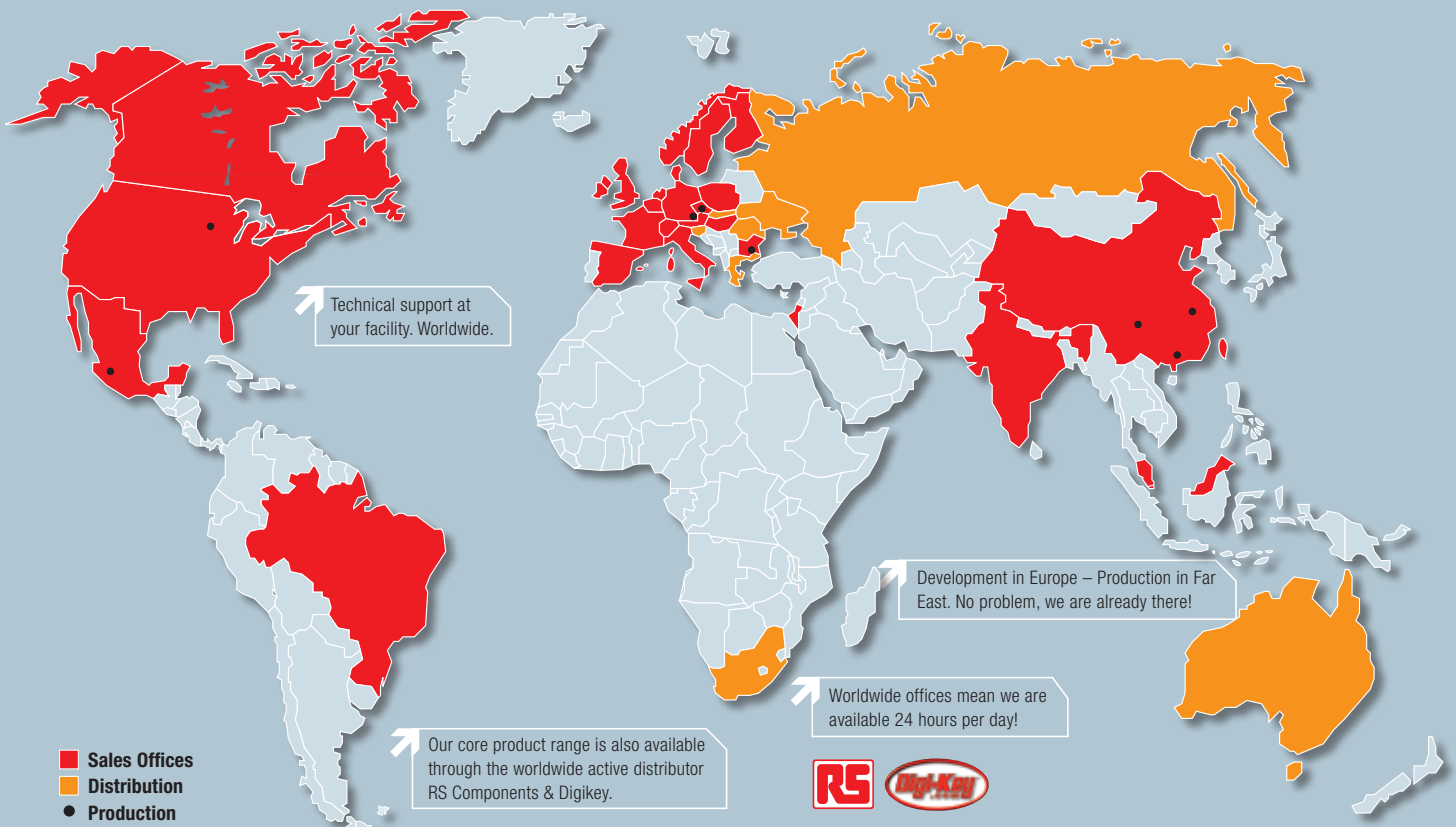
**Würth Elektronik Radialex  
Electromechanical**





## Globally available. Locally present.

Würth Elektronik is present with production plants and a worldwide technical sales force on all important markets of the world.



# Design Kits with lifelong free refill.

An ideal support for your development department



**WR-FPC**  
ZIF Connectors & Flat Flexible Cable (FFC)  
please see page 03-19

Order Code: 687 001



**WR-MM**  
MiniModule Connectors  
please see page 04-17

Order Code: 690 001



**WR-MPC4**  
Mini Power Connector  
please see page 07-22

Order Code: 649 001



**WR-MPC3**  
Micro Power Connector  
please see page 08-21

Order Code: 662 001



**WR-COM**  
Communication Connectors  
please see page 11-32

Order Code: 615 001



**WR-TBL**  
Terminal Blocks  
please see page 14-96

Order Code: 691 001



**Connector Solution Kit**

Order Code: 612 690

please see table!

Product range	Description
WR-PHD	2,54 / 2,00 & 1,27 mm Pin & Socket headers
WR-FPC	0,5 & 1,0 mm ZIF Connectors Flat Flexible Cable
WR-MM	Mini Module Connectors
WR-BHD	2,54 & 2,00 mm Box Headers
WR-BHD & WR-CAB	IDC Flat Cable Connectors & Flat Cables
WR-MPC4	Mini Power Connectors
WR-MPC3	Micro Power Connectors
WR-WTB	3,96 / 2,54 / 2,50 / 2,00 / 1,50 & 1,25 Wire to Board Connectors
WR-COM & WR-PLCC	USB / Mini Din / HDMI / DVI & PLCC Sockets
WR-COM	Modular Jacks: RJ45 & RJ11
WR-DSUB	PCB & Cable Connectors
WR-TBL	Terminal Blocks 5,08 - 5,0 - 3,81 & 3,50 mm



## The Würth Elektronik Group



**Würth Elektronik eiSos GmbH & Co. KG**  
**EMC & Inductive Solutions**  
 Max-Eyth-Str. 1  
 74638 Waldenburg  
 Germany  
 Tel. +49 (0) 79 42 945 - 0  
 Fax +49 (0) 79 42 945 - 400  
 eiSos@we-online.de

**Würth Elektronik Radialex**  
**Electromechanical**  
 Parc Technologique  
 279, Allée Jacques Monod  
 FR-69792 Saint Priest Cedex  
 Tel. +33 (0) 4 27 86 10 00  
 Fax +33 (0) 4 27 86 10 01  
 info@we-radialex.com

**Würth Elektronik GmbH & Co. KG**  
**Circuit Board Technology**  
 Salzstr. 21  
 74676 Niedernhall  
 Germany  
 Tel. +49 (0) 79 40 946 - 0  
 Fax +49 (0) 79 40 946 - 400  
 info@we-online.de

**Würth Elektronik GmbH & Co. KG**  
**Intelligent Connecting Systems**  
 Zeilbaumweg 15  
 74613 Öhringen  
 Germany  
 Tel. +49 (0) 79 41 92 05 - 0  
 Fax +49 (0) 79 41 92 05 - 38  
 ics@we-online.de

**Würth Solar**  
**Photovoltaics**  
 Alfred-Leikam-Straße 25  
 74523 Schwäbisch Hall  
 Germany  
 Tel. +49 (0) 791 946 00 -0  
 Fax +49 (0) 791 946 00 -119  
 ws.vk@we-online.de

## Passive components & Assembly catalogue



For the full range of Würth Elektronik product line see our passive components & assembly catalogue. You can order a copy for free on our website [www.we-online.com](http://www.we-online.com)



## EUROPE

### Würth Elektronik eiSos GmbH & Co. KG

**EMC & Inductive Solutions**  
Max-Eyth-Str. 1  
D-74638 Waldenburg  
Tel. +49 (0) 79 42 945 - 0  
Fax +49 (0) 79 42 945 - 400  
eiSos@we-online.de

### Automotive

**Würth Elektronik iBE GmbH**  
Gewerbepark 8  
D-94136 Thyrnau  
Tel. +49 (0) 85 01 90 01-100  
Fax +49 (0) 85 01 90 01-135  
ibe@we-online.de

### Electromechanical

**Würth Elektronik Radialex**  
Parc Technologique  
279, Allée Jacques Monod  
FR-69792 Saint Priest Cedex  
Tel. +33 (0) 4 27 86 10 00  
Fax +33 (0) 4 27 86 10 01  
info@we-radialex.com

### Würth Elektronik France

Parc Technologique  
279 Allée Jacques Monod  
FR-69792 Saint Priest Cedex  
Tel. +33 (0) 4 27 86 11 00  
Fax +33 (0) 4 27 86 11 01  
eiSos-france@we-online.com

### Würth Elektronik Italia

Via Enzenberg, 2  
IT-39018 Terlano (BZ)  
Tel. +39 (0) 4 71 82 83 82  
Fax +39 (0) 4 71 82 83 81  
eiSos-italy@we-online.com

### Würth Elektronik Spain

Rambla Guipúscoa 77 7° 2a  
ES-08020 Barcelona  
Tel. +34 (0) 933 057 172  
Fax +34 (0) 933 057 172  
eiSos-spain@we-online.com

### Würth Elektronik Belgium

De Roest D'Alkemadelaan 13/34  
BE-2600 Antwerpen-Berchem  
Tel. +32 (0) 3 230 99 40  
Fax +34 (0) 3 230 99 50

### Rue Wartonlieu 15

BE-6180 Courcelles  
Tel. +32 (0) 71 45 94 96  
Fax +32 (0) 71 45 12 55  
eiSos-belgium@we-online.com

### Würth Elektronik Austria

Gerberweg 6  
A-2320 Schwwechat  
Tel. +43 (0) 1 707 40 44  
Fax +43 (0) 1 706 37 36  
eiSos-austria@we-online.com

### Würth Elektronik Poland

ul. Ogrodowa 64 m. 1  
PL-55075 Bielany Wrocławskie  
Tel. +48 (0) 793 322 466  
Fax +49 (0) 79 42 945 470  
eiSos-poland@we-online.com

### Würth Elektronik Schweiz

Witikonstr. 409  
CH-8053 Zürich, ZH  
Tel. +41 (0) 840 000 030  
Fax +41 (0) 840 000 031  
eiSos-swiss@we-online.com

### Würth Electronics UK Ltd.

4th Avenue, The Village,  
Trafford Park  
UK-Manchester GB - M17 1DB  
Tel. +44 (0) 161 872 0431  
Fax +44 (0) 161 872 0433  
eiSos-uk@we-online.com

### Würth Elektronik Ireland

36, Westbury Drive  
Lucan, IRL - Co. Dublin  
Tel. +353 (0) 1 621 20 61  
Fax +353 (0) 1 624 92 93  
eiSos-ireland@we-online.com

### Würth Elektronik Nederland

Het Sterrenbeeld 35  
NL-5215 MK's-Hertogenbosch  
Tel. +31 (0) 736 29 15 70  
Fax +31 (0) 736 29 19 57  
eiSos-netherlands@we-online.com

### Würth Elektronik Finland

Karhutie 4  
FIN-01900 Nurmijärvi  
Tel. +358 (0) 10 308 12  
Fax +358 (0) 10 308 4702  
eiSos-finland@we-online.com

### Würth Elektronik Sweden

Härnevi, Rotbrunna 24  
SE-74596 Enköping  
Tel. +46 (0) 1 71 41 00 - 81  
Fax +46 (0) 1 71 41 00 - 80  
eiSos-sweden@we-online.com

### Würth Elektronik Czech Republic

Božetěchova 36  
CZ-612 00 Brno  
Tel. +420 549 213 -151  
Fax +420 549 213 -168  
eiSos-czech@we-online.com

### Würth Elektronik Hungary

Esztergomi u. 8 II/5  
HU-1133 Budapest  
Tel. +36 (0) 1 7878 197  
Fax +36 (0) 1 7863 713  
eiSos-hungary@we-online.com

## AMERICA

### Würth Electronics Midcom Inc.

121 Airport Drive  
Watertown, SD 57201  
Tel. +1 605 886 4385  
Fax +1 605 886 4486  
midcom@we-online.com

### Würth Elektronik Brazil

Tel. +55 (0) 11 47 02 27 74  
Fax +55 (0) 11 46 13 18 68  
eiSos-brazil@we-online.com

### Würth Elektronik México

Rio Duero No. 1122  
Parque Industrial Castro del Rio  
Tramo Irapuato - Silao km. 125  
Carretera Panamericana  
Irapuato, Gto., México;  
C.P.: 36810  
Tel. +52 462 636 06 05  
Fax +52 464 636 06 06  
eiSos-mexico@we-online.com

## ASIA

### Würth Electronic China

9 D 501, Xinmao, Rongyuan  
LU STR. 15  
Huayuan Hi - Tech Industry Park  
CN-300384 Tianyin, PR China  
Tel. +86 (0) 22 2385 8666  
Fax +86 (0) 22 2385 8260  
eiSos-china@we-online.com

### Würth Electronics Hong Kong

Unit 08, 12/F New Tech Plaza  
34 Tai Yau Street  
San Po Kong, Kowloon, Hong Kong  
Tel. +852 (0) 23 27 84 88  
Fax +852 (0) 23 27 40 88  
eiSos-hongkong@we-online.com

### Würth Elektronik Israel

Alon Hatavor 2, Zone 1  
Caesarea Industrial Park  
IL-38900 Caesarea Industrial Park  
Tel. +972 (0) 463 288 89  
Fax +972 (0) 463 288 93  
eiSos-israel@we-online.com

### Würth Electronics Taiwan

4th Floor, No. 18-1, Section 6  
Mincyan East Road, Neihu District  
Taipei 114, Taiwan  
Tel. +886 (0) 2 27 91 86 25  
Fax +886 (0) 2 27 91 87 01  
eiSos-taiwan@we-online.com

### Responsible for:

South Korea and Japan

### Würth Electronics Singapore Pte. Ltd.

160 Paya Lebar Road #07-07  
Orion Industrial Building  
Singapore 409022  
Tel. +65 67 42 15 67  
Fax +65 67 49 68 92  
eiSos-singapore@we-online.com

### Responsible for:

Indonesia, Malaysia,  
Philippines, Thailand and Vietnam

### Würth Elektronik India Pvt. Ltd.

No. 167, 2nd Floor, 36th Cross  
18th Main, 4th T Block, Jayanagar  
IN - 560041 Bangalore  
Tel. +91 (0) 80 412 26 843  
Fax +91 (0) 80 411 62 796