

CC-Link NEWS

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SPS Exhibition issue

New CLPA European headquarters reflects success of CC-Link

More and more companies who are selling on an international basis are recognising that CC-Link is extremely important, as it is the third most widely purchased fieldbus network in the world. In the Japanese automation marketplace (which is the third biggest automation marketplace after the USA and Germany), CC-Link is the clear market leader with over 45% share.

Therefore, any company that is serious about selling into the Asian automation marketplace and does not have a CC-Link interface is not accessing a large percentage of the potential available business.

Following a hugely successful 5 years in Europe, the CLPA (CC-Link Partner Association) has now established its mainland European headquarters in Germany - Postfach 10 12 17, 40832 Ratingen, Germany Tel: +49 2102 486 1750

Fax: +49 2102 486 1751, whilst retaining its original UK office in Hatfield.

Malcolm Robins, CLPA European General Manager stated "we have ambitious plans to help grow CC-Link's market share over the next 4 years, to become the undisputed world leader by 2010 and this marks an important milestone in achieving this".



Visit the CLPA at Nuremberg

Following our very successful attendance at last year's SPS/IPC/DRIVES AUTOMATION Show at Nuremberg, we will be exhibiting again this year. So put it in your diary now and visit us on Stand No. 224 – Hall 6.



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Are you making the most of the Asian Automation market?

At a worldwide level the three main factory automation networks are CC-Link for Asia, Profibus for Europe and DeviceNet for North America with the following market shares.

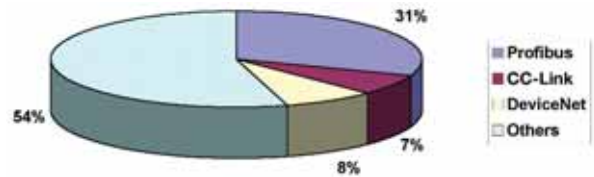
For companies who are selling on an international basis, CC-Link is extremely important as it is the third most widely purchased fieldbus network in the world. In the Japanese automation marketplace (which is the third biggest automation marketplace after the USA and Germany), CC-Link is the clear market leader with over 45% share of the market.

Any company that is serious about selling in the Asian automation marketplace (which crucially includes China, which is en route to becoming the world's largest manufacturing economy!) and does not have a CC-Link interface are not accessing a large percentage of the potential available business.

Therefore, with more and more users demanding CC-Link capability, if you don't have certified CC-Link compatible products you could be missing out on some significant business.

To rectify this, contact the CLPA for full details on how to develop products that conform to CC-Link specifications. For more information and a vendors membership application form, visit www.clpa-europe.com

CC-Link Marketshare



| Automation Fieldbus Comparison | Profibus | CC-Link | DeviceNet |
|---|-------------------|------------------|------------------|
| Nodes sold per annum | 2,800,000 | 600,000 | 720,000 |
| Manufacturer members | 1300 | 745 | 282 |
| Compatible products | 2500+ | 700+ | 956 |
| Automation based Installed nodes | 12,400,000 | 3,000,000 | 3,000,000 |

Global Support

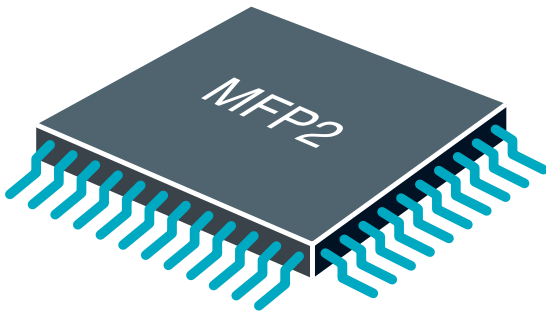


Sales of CC-Link products are increasing dramatically in all European countries.

With European automation manufacturers such as Festo, Pepperl+Fuchs, Bihl & Wiedermann, Hilscher, Lenze, Erwin Sick and Pilz seeing the business benefits of CC-Link and are making or are in the process of developing interfaces.

To meet the the growth in Europe and in CC-Link's worldwide popularity the CLPA has expanded with regional offices now in Germany, USA, UK, Korea, China, Taiwan, Singapore with the head office in Japan.

New RoHS compliant implementation chips



There are a variety of LSI (Large Scale Integration) chips to interface between external devices and a CC-Link network. These come in 6 main formats – all of which are RoHS compliant.

MFP1N is a 100 pin Quad Flat Package (QFP) chip that is used for connecting master and local station devices to the CC-Link network such as PLCs, HMIs and PCs that have a CPU and can handle word data.

MFP2N is used to connect simple slave devices such as digital I/O modules that have no CPU onto a CC-Link network.

MFP2AN is an 80 pin QFP chip which is used to connect simple slave devices such as digital I/O modules that have no CPU onto a CC-Link network.

MFP3N is a 100 pin QFP LSI chip that is used to connect intelligent local stations which have a CPU and can handle Word type data to a CC-Link network, such as servo amplifiers, HMIs or frequency inverters.

CLC21 is an 80 pin QFP chip which is used to connect remote digital I/O stations onto CC-Link LT networks.

CLC31, an 80 pin QFP chip that is used to connect remote device stations such as analogues onto CC-Link LT networks.

For vendors who are looking to develop an interface, a free of charge sample chip set is available for all Registered and Executive members. To obtain a free sample chip set please contact the CLPA-Europe directly.

ISO 15745-5 Standard for CC-Link Fieldbus

Another International Standards Body Recognises CC-Link Technology

The first international standard that CC-Link attained was SEMI E54.12 (Semiconductor Equipment & Materials International). Now CC-Link has also been approved by ISO (International Organisation for Standardisation).



CC-Link was already a de-facto standard in Japan and in recent years has expanded rapidly in Asia and

North America. CC-Link has progressed from a Japanese de-facto standard to a global standard with the approval of International Standard, ISO 15745-5. ISO approval of CC-Link technology supports the market requirements for network openness and adherence to industry standards. This results in the increasing acceptance of CC-Link by manufacturers, system developers and users not only in Japan and Asia but also around the world.

There are two prominent types of international standards for factory automation networks. One is the standard specifying network protocol (procedure and format for data communication between the devices). The other type of standard addresses the communication specifications of equipment connected to factory automation networks and involves data such as manufacturer name, number of points to be supported, compatible network version number, etc. ISO 15745, for which CC-Link has been approved, corresponds to the latter standard type.

This international standard recognises the high-level technology and ease of use of the CC-Link open field-level network. It facilitates software applications utilising CC-Link networking to dramatically improve production efficiency. CC-Link open technology, the wide variety of compatible products, and the ease of application integration makes it efficient and convenient for system designers and users across the globe to use CC-Link in factory automation (FA), process automation (PA) and building automation (BA) systems.



New 'European' CC-Link web site

To provide our European partner vendors and users with better information, the CLPA has recently launched a dedicated web site, clpa-europe.com, where you can find everything about the CLPA and CC-Link.

The site covers the benefits, configuration and specifications of CC-Link, together with everything you need to know about becoming an authorised CC-Link vendor by joining the CLPA.

In addition, a download section provides PDFs for wiring manuals, product catalogues and membership application forms.

Visit www.clpa-europe.com



New European Sales Development and Marketing Manager



David Folley has joined the CLPA as a consultant to help develop further opportunities with European vendors and support its expanding marketing activities.

David has over 20 years experience in Factory Automation and during these years has gathered a number of complementary skills that will help him greatly in this consultancy role. David has been on both sides of the automation fence where he has held senior management positions in engineering and sales & marketing, which has given him many years of practical and management experience.

European Vendor Members

UK Woodhead Connectivity Ltd
Factory No.9 Rassau Ind. Est.
Ebbw Vale Gwent, Wales NP23 5SD
Tel: 44 1495 350436, Fax: 44 1495 350877
PCI Cards
Foundation Partner

UK Pepperl+Fuchs GB
77 Ripponden Road, Oldham, Lancs. OL1 4EL
Tel: 0161 633 6431, Fax: 0161 624 6537
VAG-CCL-G4F, CC-Link / ASI Gateway
www.gb.pepperl-fuchs.com

D Pepperl + Fuchs GmbH
Königsberger Allee 87, D-68397, Mannheim
Tel: 49 621 776-0
VAG-CCL-G4F, CC-Link / ASI Gateway
www.pepperl-fuchs.com

UK Festo Limited
Automation House, Harvest Crescent, Ancells
Bus. Park, Fleet, Hants GU13 8XP
Tel: 01252 775000, Fax: 01252 775001
CPV and CPA Series Manifolds
www.festo.com

D Festo AG & Co
Ruiter Strasse 82 73734 Esslingen Germany
Tel: 49 711 347-0, Fax: 49 711 347 2144
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www.festo.com

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UK NEC (UK) Ltd
NEC House, 1 Victoria Road, London W3 6BL
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Master Computer and PCI Card
www.nec-global.com
Foundation Partner

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www.nec-global.com
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UK Yamato Scale (UK) Ltd
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Tel: 0113 271 7999, Fax: 0113 2717012
Weigh Scale controller

D Yamato Scale GMBH
Hanns-Martin-Schleyer Str. 13 D-47877 Willich
Tel: +49 2154 9159-0, Fax: +49 2154 40626
Weigh Scale products

UK Lenze Maysor
Generation Business Park Barford Road
St. Neots PE19 6YQ
Tel: 01480 408500, Fax: 01480 403808
Optical Measuring equipment

D Bihl & Wiedemann GmbH
D-68199 Mannheim Germany
Tel: +49 621 339960, Fax: +49 621 3392239
CC-Link / ASI Gateway
www.bihl-wiedemann.de

D Leoni Special Cables Friesoythe GmbH & Co. KG
Eschstrasse 1 26169 Friesoythe Germany
Tel: +49 4491-292-0, Fax: 49 4491-292-109
CC-Link Cable
www.leoni-special-cables.com

D Hilscher GmbH
Rheinstraße 78 D-65795 Hatterheim Germany
Tel: +49 6190 9907-0, Fax: +49 6190 9907-50
Interface Cards
www.hilscher.com

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