

Twelve good reasons for using CC-Link

1. High noise immunity.

CC-Link has a very high tolerance to electro-magnetic noise compared to other fieldbuses, and users do not need to worry about earthing problems or using special EMI connectors when installing. Uniquely, it is part of the CC-Link Conformance test

2. Floating master function:

Even if a fault occurs on the network master station, the standby master will automatically maintain network communications. Up to 26 standby masters are permitted per network, with each standby master being able to have completely different operating programmes if needed so suit failure situations.

3. Detaching slave function

This automatically removes a slave station that has a fault or for maintenance and allows communication with all other stations to continue without affecting network reaction times. This feature is fairly unique to CC-Link, and allows for the creation of truly flexible production line configurations.

4. Automatic return function

This feature allows all network devices to be replaced while the network is operating and automatically returns a disconnected station to the data link when a fault is corrected, without need to reset the network. This feature overcomes the need for network resetting on instances such as local power failures or safety switch activations that remove power to the local network stations on the machine.

5. Hot swap of stations (masters and slaves).

On CC-Link you can hot swap stations without any effect on the network cycle times and without creating errors. Reconnection can also be on-line without stopping the network. This feature is a production downtime saving feature as there is no need to stop the network for station repairs.

6. Station bypass.

Stations can be selected as bypassed without effect on cycle time for flexible production lines and easy maintenance. This feature is also useful when creating a future proof network topology as it allows the setup for the network to be created in the Master but the actual hardware stations to be added on gradually or at a later date. These stations can be activated without stopping or resetting the network, saving lost production or additional software writing and commissioning time.