



Product Focus

EtherCAT Automation Protocol

The EtherCAT Automation Protocol allows for real-time communication between all terminals within a network, which achieves a whole new level of connectivity in the field of automation systems. This can include all PC-based controls, machines, testing rigs, conveyor belts, robots, facilities for quality assurance or MES (Manufacturing Execution Systems).

With the EAP it is possible to exchange data between the individual working stations with low cycle times at transfer speeds of up to 1000 MBit/s or 10 GBit/s. This enables the command level to access and consequently analyze, control and regulate every single device or machine connected to the network in real time.

The resulting vertical integration extended to the whole plant level grants users the possibility to create flexible real-time networks that are compatible with the familiar EtherCAT process data exchange as well as service data exchange and even allow for file transfer in real time.

The application of the EAP is virtually identical to the already popular Kithara EtherCAT Master, thus allowing for efficient and convenient implementation of plant-wide automation processes, without the requirement for additional hardware.

The latest information about Kithara products as well as a free 90-day trial version can be found [on our website](#).

