

CC-Link Partner Association Provides CC-Link IE TSN Compliance Certification to Analog Devices' Industrial Ethernet Time-Sensitive Networking Switches

The CC-Link Partner Association ("CLPA") today announced that two products, ADIN6310 and ADIN3310 provided by Analog Devices, Inc. (ADI), have passed the "CC-Link IE TSN Recommended Network Wiring Parts Test: Switch Certification Class B and Class A". These are the first ADI products to achieve this certification.

Smoothing the Way for Smart Factories

As manufacturing sites increase in size and become smarter, the requirement is to build integrated networks that can efficiently manage operations and enable precise control. This means gathering data from every kind of equipment and mechanism in real-time, conducting instant analysis, and then swiftly returning control signals.

CC-Link is an open network specification for data communication among devices from various manufacturers. The specifications were publicly released in 2000. As a result, the CLPA was set up in the same year as a neutral body to manage specifications and promote the global adoption of CC-Link.

The CC-Link IE TSN standard, which certifies these ADI products, is the Industrial Ethernet (IE) specification of CC-Link. It supports Time-Sensitive Networking (TSN), which provides the precise time synchronization that standard Ethernet is incapable of doing. TSN enables the integration of IT and OT networks by supporting a single network for both critical, real-time data (such as production line monitoring) and non-real-time data. This enables remote monitoring of production lines and real-time operational coordination among multiple devices, with the result of increasing productivity, efficiency, and safety.

About ADIN6310 and ADIN3310

ADI's ADIN6310 (6-port) and ADIN3310 (3-port) Industrial Ethernet TSN-compliant network switch ICs are differentiated by their Ethernet port count. Both support operation across multiple communication speeds and have secured CC-Link IE TSN certification for both 100 Mbps and 1 Gbps connectivity. TSN includes core standards covering key functions such as time

synchronization, traffic scheduling and preemption—all of which are supported by the ADIN6310 and ADIN3310. ADI offers evaluation boards for system manufacturers that integrate the switch IC, PHYs, a host processor, and power supply units. By designing products that adapt ADIN 6310 or ADIN3310, developers can design systems that are fully CC-Link IE TSN-compliant. The switch IC products and the evaluation boards are both already being mass produced and shipping.

CLPA anticipates that this major product certification will speed up the global adoption of CC-Link IE TSN, aiding in the continued advancement of smart factories in Japan and around the world.

About the CC-Link Partner Association (CLPA)

Headquartered in Japan, CLPA operates through active bases in 11 regions around the world. As an open network promotion organization and your business partner, the association has pioneered the global adoption of the CC-Link family. It is particularly focused on “CC-Link IE TSN”, a 1Gbps Ethernet-based industrial network that is one of the industry's first to adopt time-sensitive networking technology.