

GOEPEL electronic combines Boundary Scan with real time Test of GBit LAN Interfaces

GOEPEL electronic introduces BAC9305-LAN1G, the latest Bus Access Cable (BAC) as a new member of the industry leading JTAG/Boundary Scan hardware platform SCANFLEX®. For the very first time, in connection with the SCANFLEX® multi port module SFX-9305 the new family member of Bus Access Cables enables the real time test of GBit LAN interfaces in combination with extended JTAG/Boundary Scan operations based on a unique platform. The protocol based functional test of the LAN interface with maximum transfer speed helps to detect production faults as well as dynamic problems.

“More and more industrial devices feature a GBit LAN interface as standard and must be tested under full dynamic in the production to guarantee an ideal fault coverage. With our new Bus Access Cable we are the first vendor that completely covers such applications“, says Thomas Wenzel, co-founder and Managing Director of GOEPEL electronics’ Boundary Scan Division. “The opportunity to combine functional interface tests with other methods such as Boundary Scan and Flash programming in one process step opens attractive ways to improve test quality at reduced instrumentation costs.”

The BAC9305-LAN1G was designed for the connection to the multi port I/O module SFX9305, providing a triple speed 10/100/1000 MBit Ethernet interface. ARP, TCP/IP and DHCP are currently supported protocols. The module can be utilized for devices with or without completely implemented firmware. In the latter case, the BAC9305-LAN1G is applied with VarioTAP®, a technology for processor emulation tests. VarioTAP® takes over the initialisation of the UUT processor as well as the respective LAN interface, without flashing a specific firmware.

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