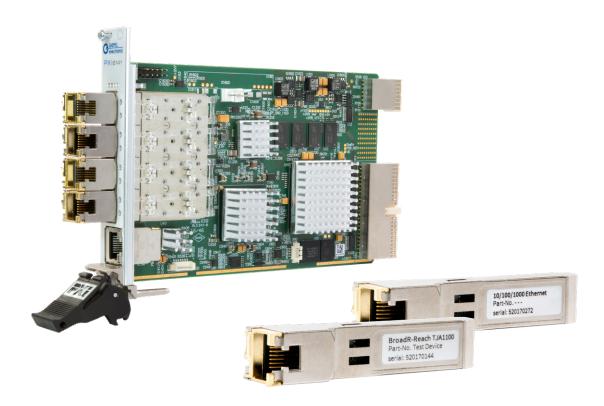


## PXI 6141

# Automotive Ethernet Controller for test and validation of Ethernet-based in-vehicle networks



- · flexible test platform for Automotive Ethernet
- · modular transceiver system (four modular transceiver bays)
- · a total of five independent 10/100/1000 Mbit MAC interfaces
- · trace-capture on all SFP interfaces with precise hardware timestamps
- · FPGA based switching fabric which allows multiple data path for tapping and bypassing, PHY to PHY routing, PHY to MAC routing
- · bypassing with packet injection through internal switches to inject:
  - · additional traffic from MAC/packet generator
  - · erroneous frames from the packet generator
- · fourfold integrated FPGA based packet generator (up to 100 % busload with valid and erroneous data)
- · comprehensive G API and LabVIEW virtual instrument library





Parameters		
host interface	PXI	
number of interfaces	five independent 10/100/1000 Mbit MAC interfaces	
modular system	SFP transceiver modules for:	100Base-T1 (BroadR-Reach) 1000Base-T1 10/100/1000Base-T
packet generator	fourfold integrated FPGA based packet generator up to 100% busload	
software support	G API and LabVIEW virtual instrument library	

coupling of four 10/100/1000 Mbit MAC interfaces to the four SFP transceiver bays

### PXI 6141

Test and validation of Ethernet-based in-vehicle networks

### Packet generator

up to 100% busload

all MACs can simulate independent traffic for multiple ECUs, each virtual ECU with its own MAC and IP addresses



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