

DTC Testing —



# DTC testing even more flexible

Diagnostic capability is required even for the smallest control units. As a basic functionality, it plays a key role in the development process, and it is crucial to be able to test and qualify diagnostic services at an early stage.

Based on the flexible system concept of the Areus Test Cubes (ATC), Areus offers optimal solutions for developing and testing diagnostic functions. Hardware and software modules interlock to simulate and verify diagnostic services and DTC functions.

## Overview - The system

The Areus Test Cube accommodates the DUT (device under test) and provides power supply, communication interfaces, etc.

Its automation and measurement functions allow fully automatic tests, power cycles, over-voltage-, undervoltage- and wakeup-tests.

The basic system can be flexibly extended with modules for fault simulation for a wide range of signal types.

Since the system is completely controlled via CAN, it can be quickly and easily integrated into existing test frameworks and programs.

In this way, fully automated, remotely controllable diagnostic test systems are created in the shortest possible time, which fit seamlessly into the existing test infrastructure.



## Flexible - The Extension Unit

- Modular concept
- Modules for different signal classes
- CAN-controlled
- Seamless integration into any test environment
- Easy setup
- Self-diagnosis
- Small space requirement
- Robust



## High performance - The modules

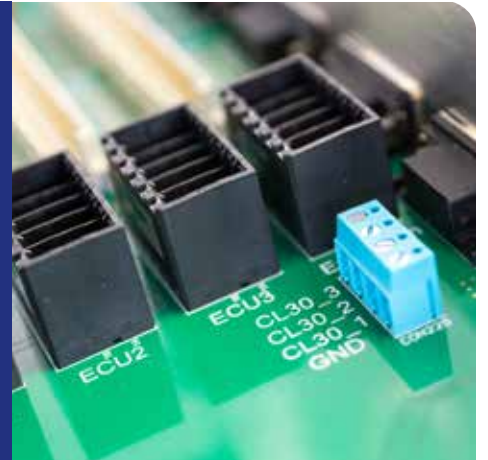
Modul	Zweck	Channels
RF DTC	DTC for Antennae, Displays, high speed data lines (e.g. Ethernet)	4
RF Multiplexer	RF signal source switch, e.g. real antenna /signal injector	4
High Current DTC	Amplifier Power (Speaker) outputs, motor driver outputs, differential actuator signals	8
Low Current DTC	Digital inputs / outputs, control signals	8
Microphone DTC	Microphones, differential high impedance signals	2
Load simulation	Power amplifier outputs / Motor control outputs	4
USB DTC	USB-Daten- und Stromleitungen	2



## Tester's Choice - der Areus Test Cube!



**OEM independent  
and cost-efficient**



**Transportable  
and takes up little space**



**Takes all  
adapter hardware**

**Open design  
with convenient access**

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