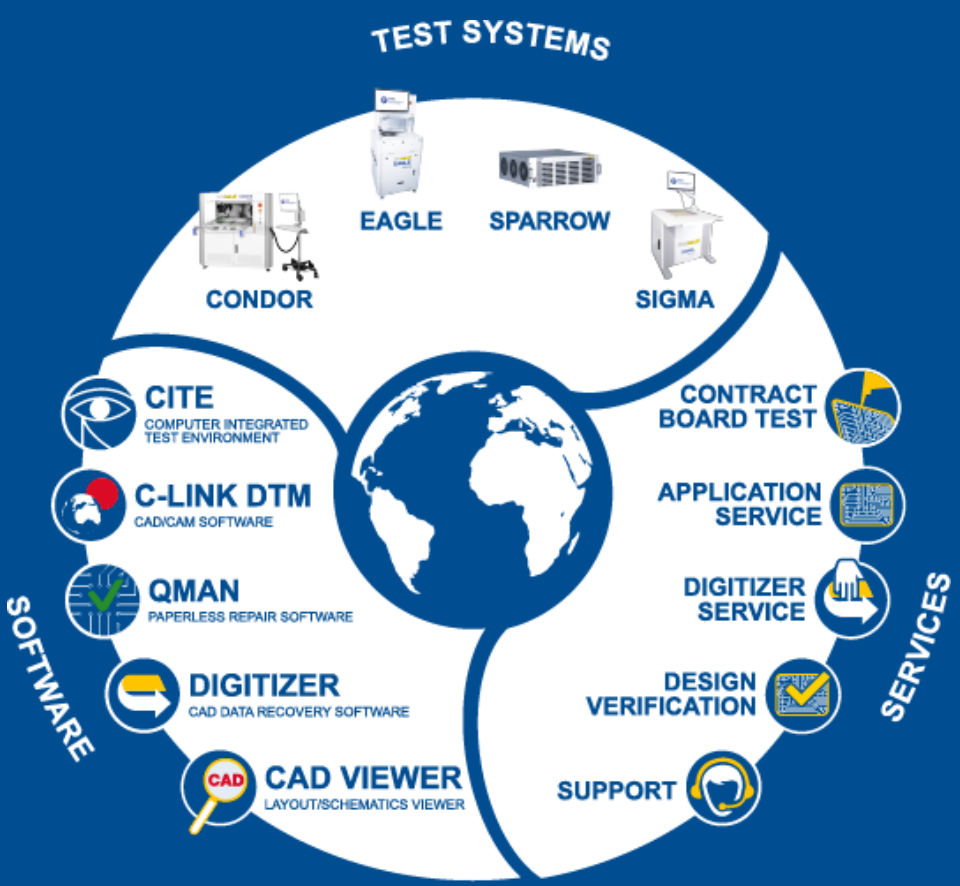




Our service goes beyond the delivery of the test systems - personal care and support are very important to us.

Experiences

-  Automation
-  Information Technology
-  Computers & Peripherals
-  Medical Technology
-  Automotive & Transport
-  Industrial Electronics
-  Contract Manufacturer
-  Consumer Electronics
-  Military
-  Test Houses
-  Aerospace Technology



Since 1980 Digitaltest has been developing and manufacturing automated test systems (ATE) for electronic circuit boards, software for production automation and quality management systems.

MTS4-300

Hans Baka
Managing Director / CEO



MTS Roadmap



Generation one



Generation two



Generation three

digitaltest ///



MTS4-300

MTS4-300 new 4th tester generation **digitaltest**

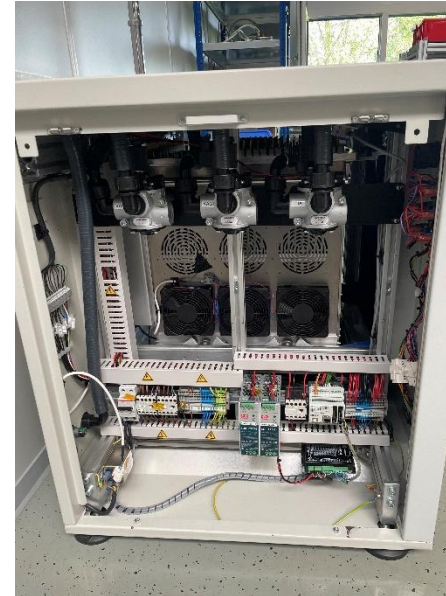
- 100% adapter compatible with existing MTS300 systems
- 100% command compatible with existing programs.
- Existing programs can be translated
- Small debug work may be necessary like on the move from AMU4 to AMU5
- Dimensions
 - 1,050 x 750 x 850 (WxDxH)
 - 110 ... 230 VAC - single phase 15A max.
 - Weight approx. 250kg
 - Vacuum connection as for the MTS300

Views

➔ Side and rear view



Open on the
right with PC



Open on the
left with space
for UPC,
Vacuum...



Open back with
internal power
supplies

➔ Control elements



Links
Button for
System, vacuum,
PC...



Right
Main switch,
Emergency
stop,
USB ...

➔ Service mode with extended assembly rack

[MTS-4 300.MOV](#)

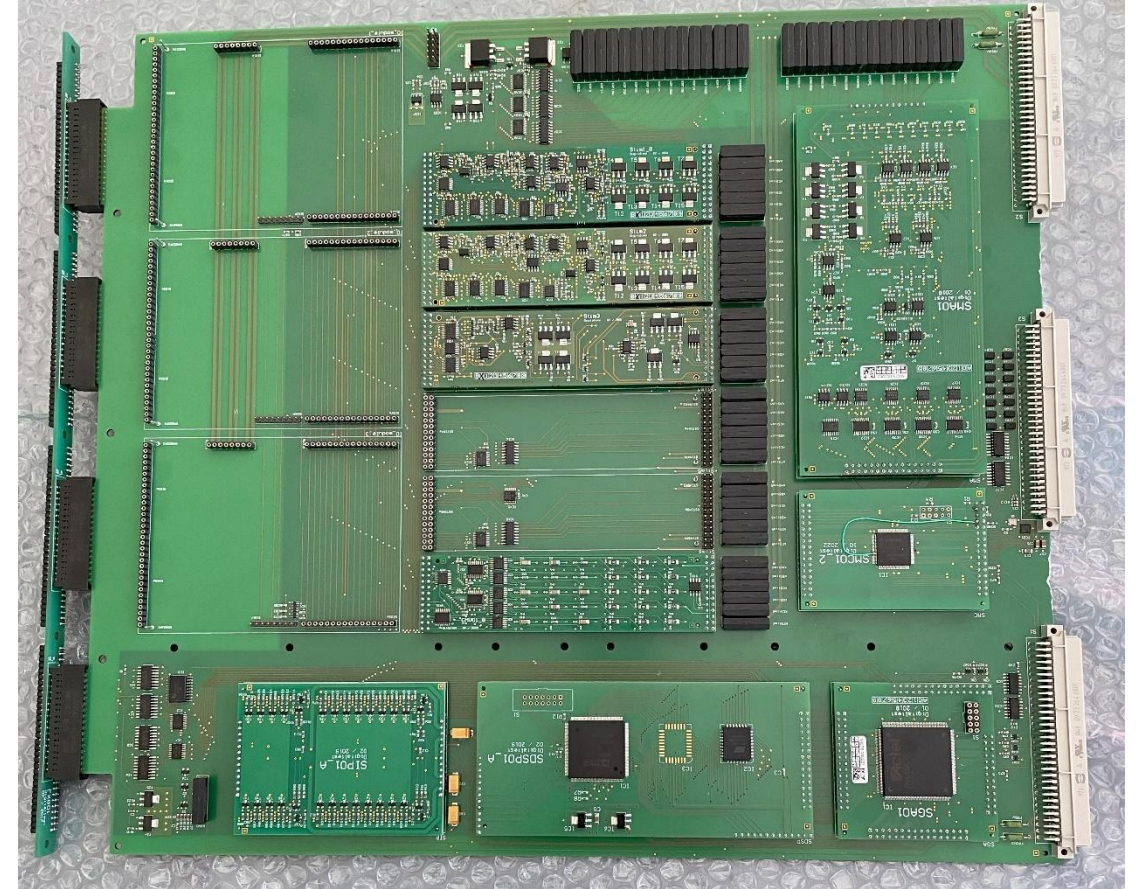


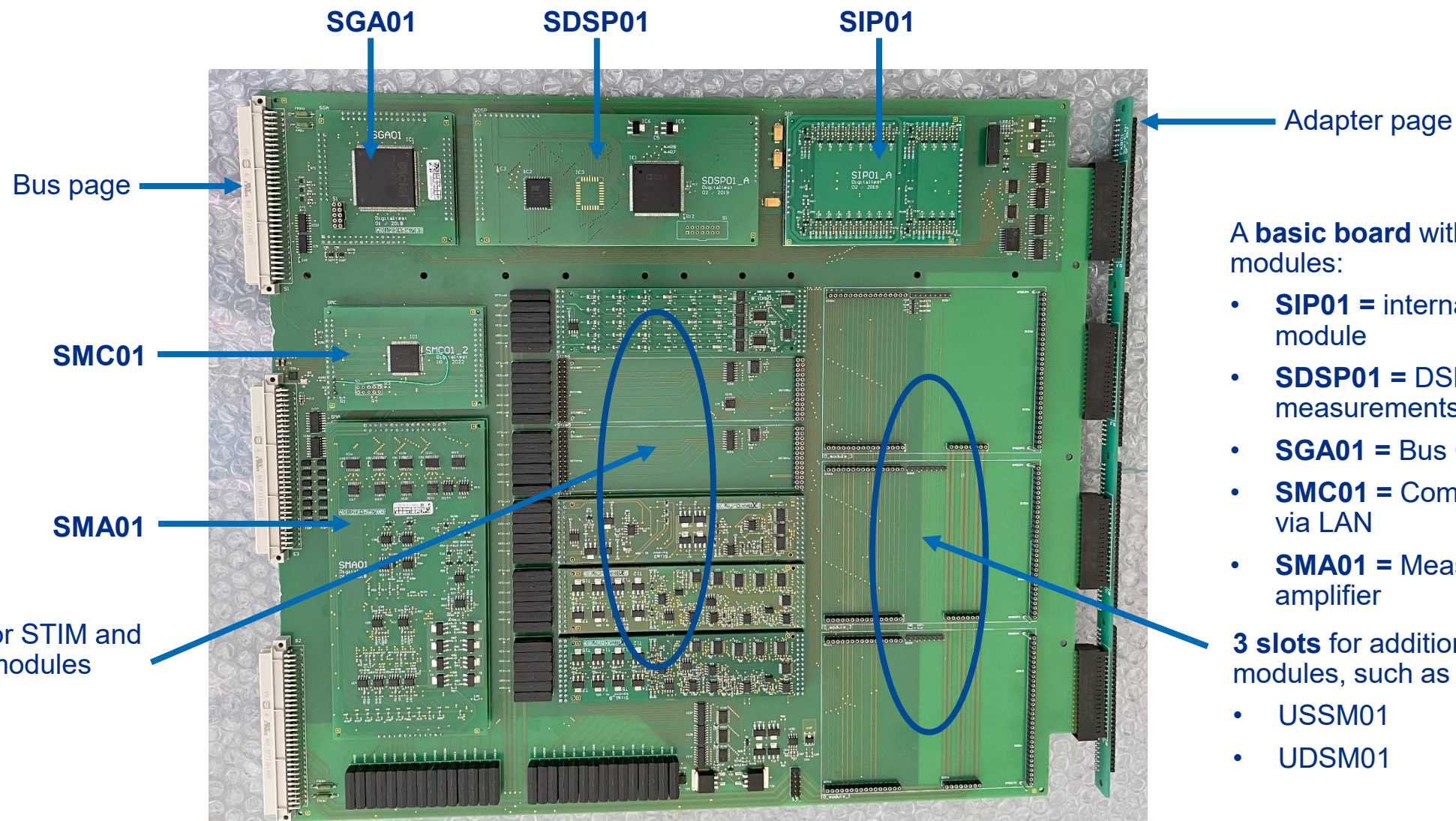
Views

digitaltest //

➡ System Control Unit

- like AMU05
- System communication unit (LAN)
- Main board
- Function modules
- Modular design
- More service-friendly
- Easier to upgrade





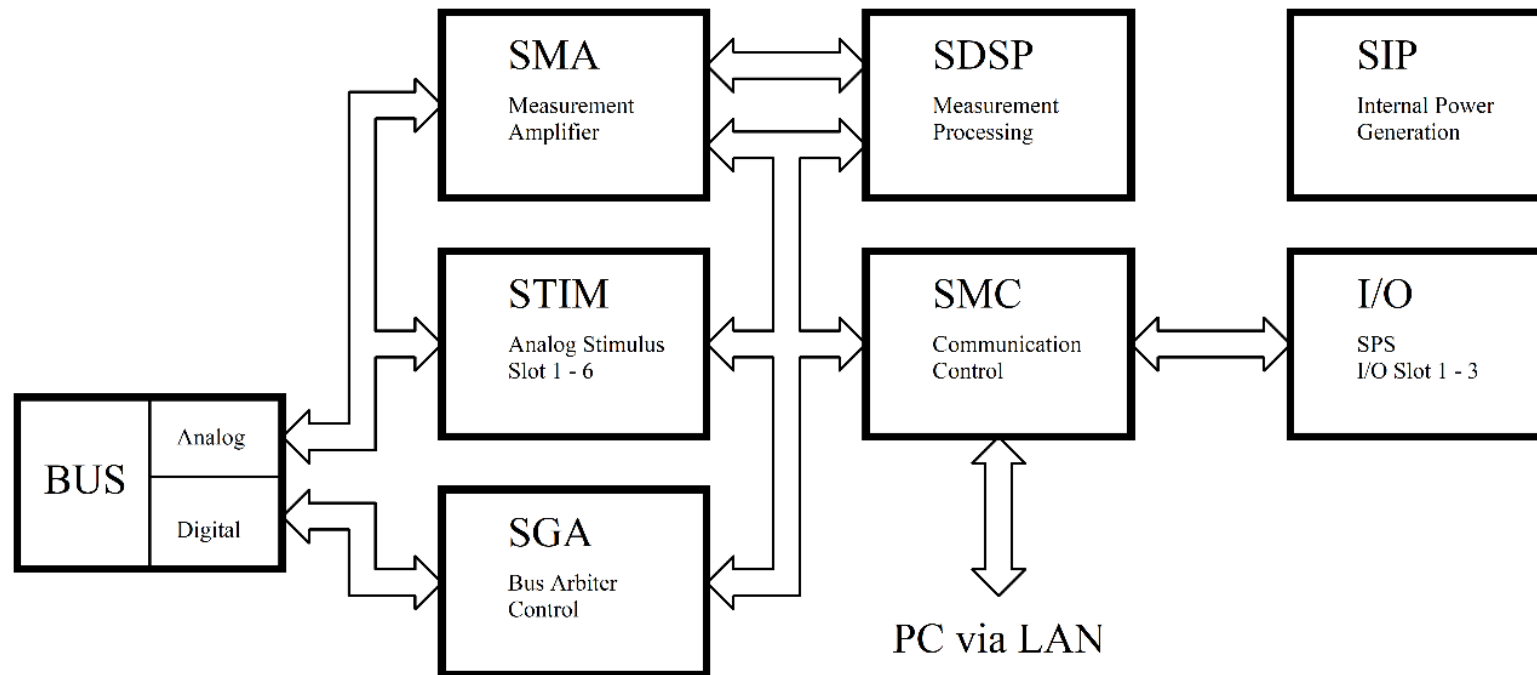
A **basic board** with function modules:

- **SIP01** = internal voltage module
- **SDSP01** = DSP analog measurements
- **SGA01** = Bus Controller
- **SMC01** = Com. module PC via LAN
- **SMA01** = Measuring amplifier

3 slots for additional modules, such as

- USSM01
- UDSM01

System Control Unit - Block diagram

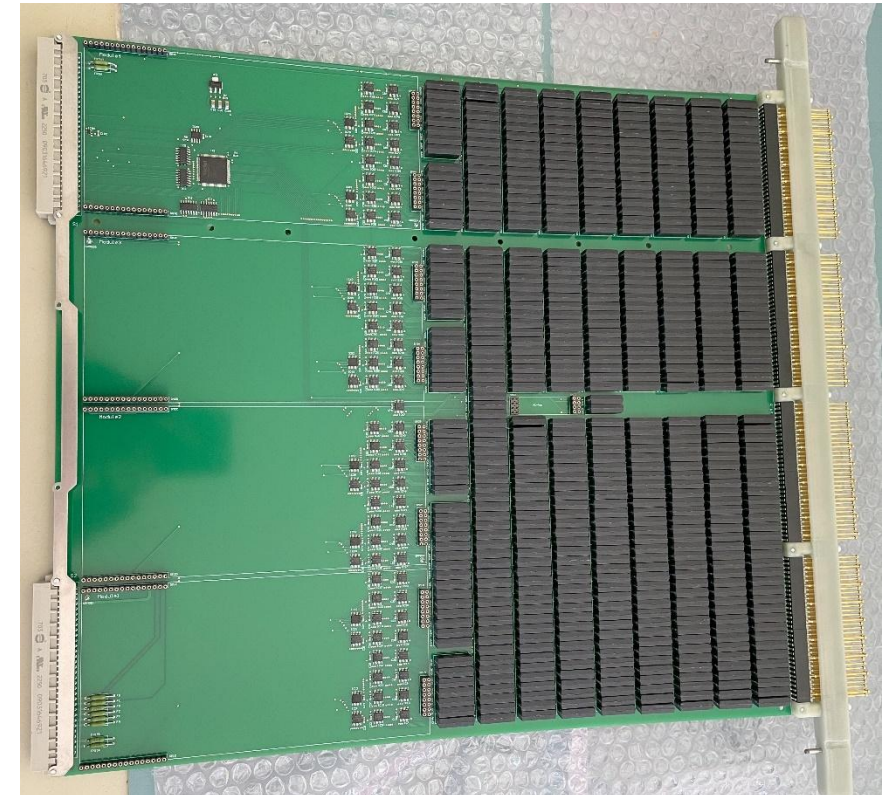


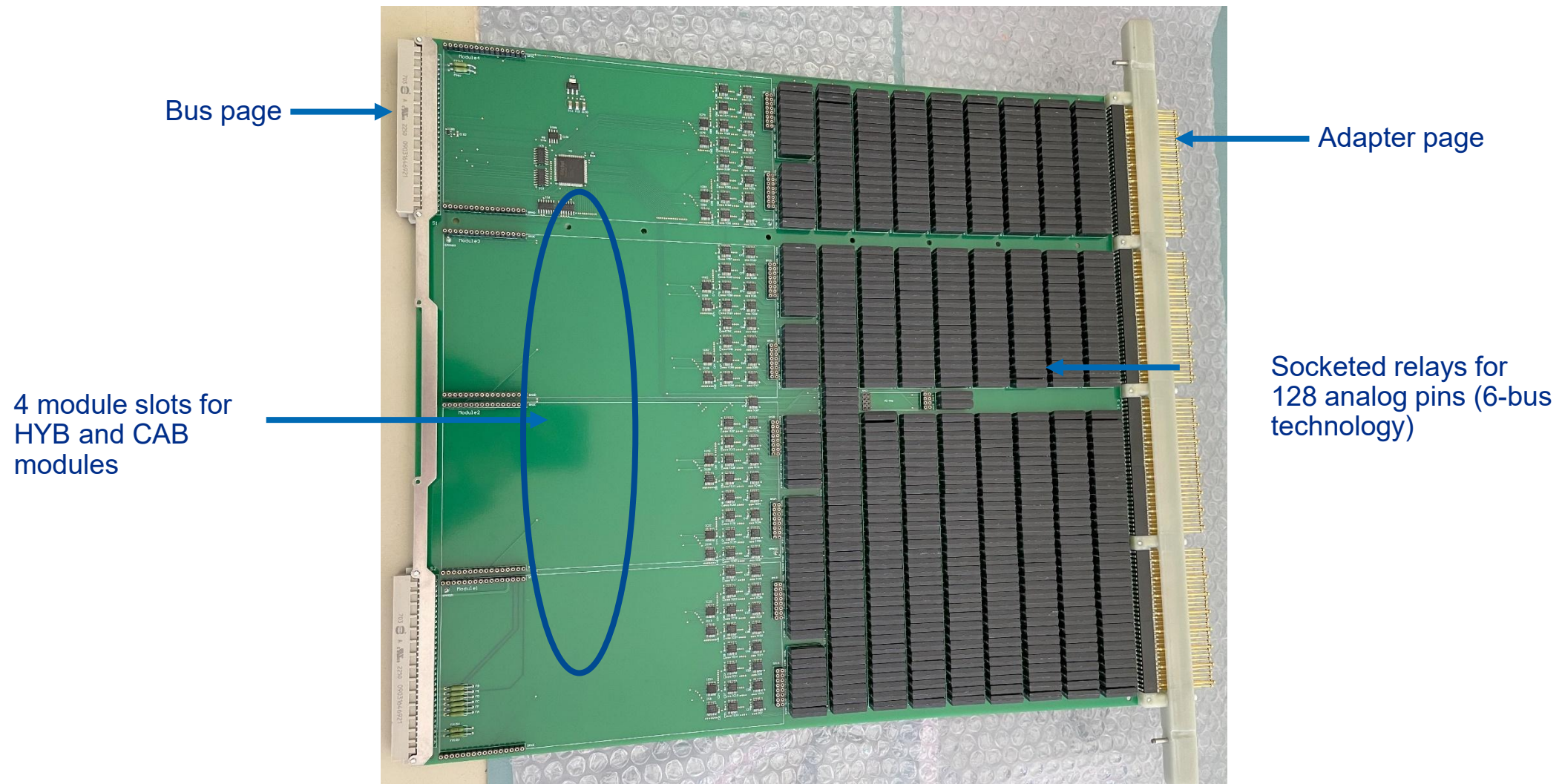
A **basic board** with function modules:

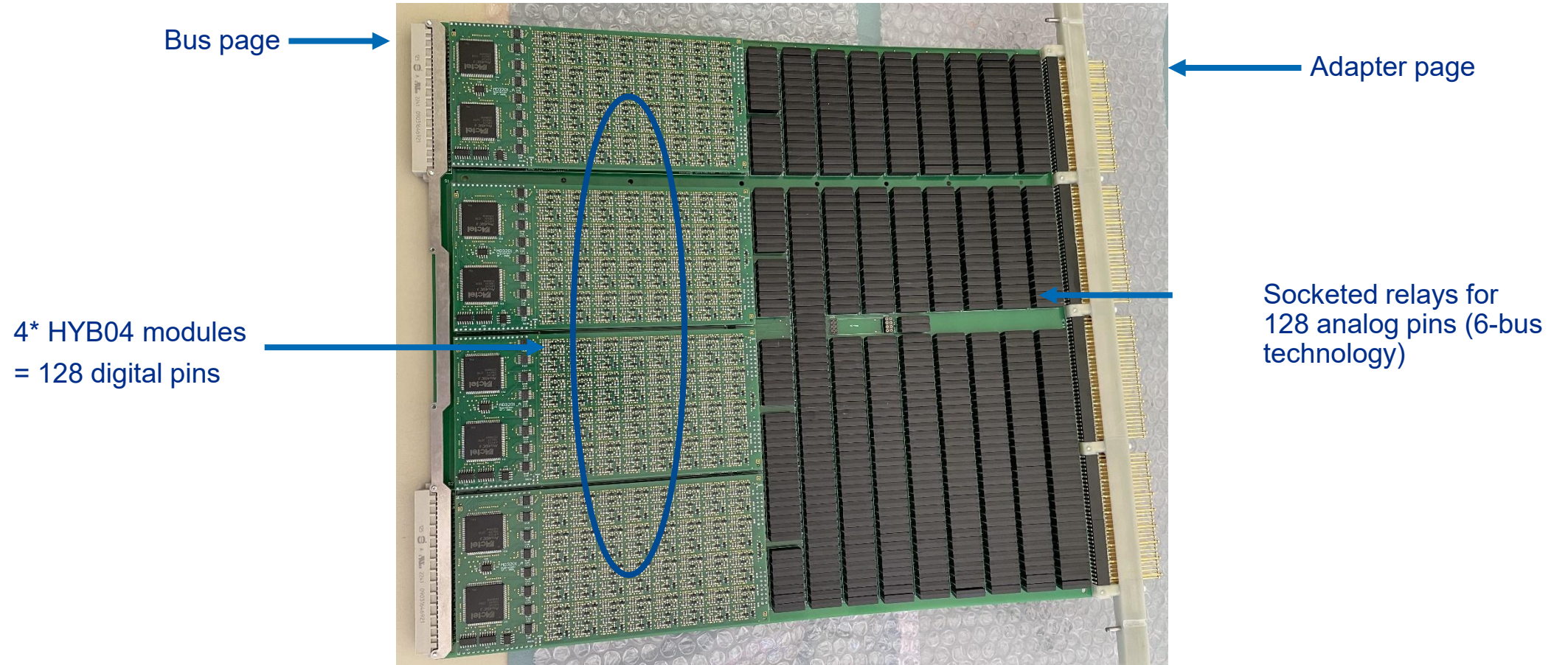
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- **SMA01** = Measuring amplifier

➔ Mux Hyb Carrier Board

- Baseboard
- like MUX09 with 128 analog channels
- Can be upgraded with additional modules
- 4 module slots
- HYB03 or HYB04 modules
- CAB - Functional test modules, MTC...
- More service-friendly
- Easier to upgrade
- Modular and expandable







MTS4-300 part



Part.-no.	Description
11314	MTS4-300 Sigma; Basic System, vacuum-interface; incl. SCU01
11431	Baugruppe SCU01; System Control Unit incl. Module; Vacuum
10981	Board SCU01 w/o Modules!
10431	SIP01; SCU internal DC/DC Power Unit
10430	SDSP01; SCU internal DSP Unit
11409	SGA02; SCU internal Bus Controller
11400	SMC01; SCU internal Communication Port LAN/PC
10417	SMA01; SCU internal internal Signal Amplifier
10043	STIM01; SCU internal internal Stimulus Module
10044	STIM02; SCU internal internal Stimulus Module
10046	STIM03; SCU internal internal Stimulus Module
	Pin Cards and Functional Modules
00.21.21	UDSM01; Universal switching module 10* SPDT, 1* SPST
00.21.20	USSM01; Universal switching module 16* SPST
00.21.50	FailSim; aICT failure simulation tool (CMV01-HW for AMU05 and SW-licence /-mod
11366	MHC01; Carrierboard for MUX, HYB and FCT Modules
10278	MD3201; 32 Pin Hybrid D/S Module
10983	MD1601; 16 Pin Hybrid D/S Module
11434	MDS02; High Voltage static D/S Module
11435	MTC02
10984	MRD02
11438	MSM02
11436	MRM03; verschiedene Varianten MR1603, MR0403 MOC03
11439	MOC03; ModPack Open Collector Modul

- ➔ A contemporary interface
- ➔ Customer wishes were realized
- ➔ Functionality corresponds to the previous CITE versions
- ➔ Programs can be taken over from CITE 8/9 if the system is configured accordingly by the HW
- ➔ A 32-bit and a 64-bit version are still available
- ➔ Elimination of redundant entries in connection with C-LINK
DTM - what is defined in one tool automatically appears in the other

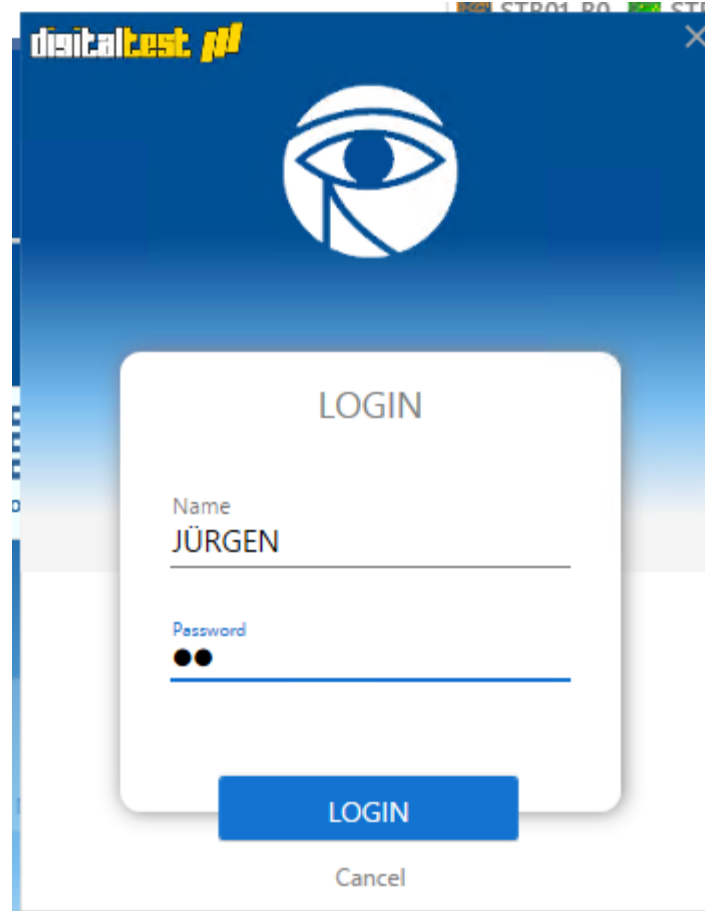
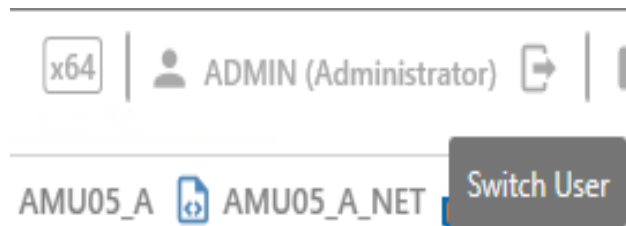
CITE surface



User change



➔ New function: Change logged-in CITE user during operation



Board Menu

➔ Categories - we are currently in Board



➔ Available functions



Program Menu



➔ Category Program



Tools Menu



➔ Category Tools



Utilities Menu



➔ Category Utilities



Configure Menu

➔ "Configure" category



Support Menu



➔ Category Support



- **A universal base board MHC01**
 - ✓ Customers can easily upgrade their boards themselves (e.g. MUX->HYB)
 - ✓ Cost-effective combinations possible (e.g. mix of CB modules and HYB)
 - ✓ No additional wiring required for the CB
- **Stimulus slots can hold up to 6 stims.**
 - ✓ More options in the function test.
 - ✓ Slots 1, 2 and 3 are the same as in the old system
- **Stimulus frequency selectable via 3 generators**
 - ✓ Different frequencies can be stimulated simultaneously (previously only one)
 - ✓ PWM signals can be output.
- **Stimulus can output arbitrary signals**
 - ✓ More options in the function test
 - ✓ Lots of software (waveform editor...).

- **Stimulus can be switched to any of the 6 buses**
 - ✓ Restrictions on Stim2 and Stim3 so far
- **Voltage measurement with MEAS_AMU possible via each of the 6 buses**
 - ✓ So far only BUS A-D possible
- **Frequency measurement with SCU01.**
 - ✓ If the range from 1Hz to 100KHz is sufficient, no additional module needs to be purchased
- **Waveform analysis with SCU01.**
 - ✓ More options in the function test
 - ✓ Lots of software (envelope editor...)
- **Additional optional parameters Stimulus voltage and threshold for pin check.**
 - ✓ New feature
 - ✓ Change pin check, AC stimulus

Highlights



- **Additional optional parameters Stimulus voltage for cont test**
 - ✓ New feature
- **ACA01**
 - ✓ Improved measurement of small coils and capacitors
- **Drawer**
 - ✓ Easy module replacement without removing the adapter
- **Energy**
 - ✓ Automatic switch-off possible after a defined time
- **New bus concept**
 - ✓ LAN-based, no more interface (SINT) required in the PC
- **Assemblies and slot**
 - ✓ Automatic detection and entry in the system configuration
- **Firmware update**
 - ✓ Possible via BUS, assemblies no longer need to be sent in

Questions & Answers



Do you have any further questions?

Please write to us:

sales@digitaltest.com

**Thank you for your participation and
attention**