HW Laboratory

The Networked Embedded Sensing Center located at Fuerstenweg 176 entertains a hardware development and test laboratory. By request this laboratory is open to all employees of UIBK. If interested please contact Tatiana Elmakova for details.

Lab Instruments

Model	Manufacturer	Serial Number	Purchase Date	UIBK Inventory	Comment
E36313A DC Power Supply	Keysight	MY57240029	2020		
EDU36311A DC Power Supply	Keysight	CN62250096	2022/12/07	34073310	
EDU33212A Waveform Generator	Keysight	CN62210126	2022/12/07	34073309	
EDU34450A Digital Multimeter	Keysight	CN62300037	2022/12/07	34073307	
EDUX1052G 2CH 50 MHz Oscilloscope	Keysight	CN63121176	2023/05/02	34073308	
34465A 6.5 50'000 Multimeter	Keysight	MY60071033	2023/05/02	30019304	
1552A-12 Reference Thermometer -80 to 300C, ±0,05 °C	Fluke	6461001	2024/06/20		replaced from unit 1572058 (broken PRT)
Battery Charger	Vitronic				
MKF 056 (E5) Climate Chamber	Binder	20230000016577	2023/12/04	31014948	Model number 9020-0378, login admin, 2 (panel)
Otii Ace-Pro + Software (1y)	Otii	221104200372	2024/02/01	30019650-0000	
Otii Ace-Pro	Otii	221104200587	2024/06/18		
MSO46B 4-BW-1000 1 GHz Oscilloscope	Tektronix	C069945	2024/08/01		Option 4-ULTIMATE-PER, 3Y warranty
DMM7510 7.5 1'000'000 Digitizer/DMM	Keithley	4619255	2024/06/10		

TEK Oscilloscope & Probes

A MSO46B 4-BW-1000 1 GHz Oscilloscope including a bundle of all software extension options 4-

ULTIMATE-PE is available with a selection of probes:

Model	Description	Serial Number	Purchase Date	Comment
TAP1500	Low voltage single-ended probe 1.5 GHz	B023966		
TLP084	8-channel logic probe	C300253		
TPA-N-PRE	Pre-amplifier	C000133	2024/08/01	
TPP1000	Passive voltage 1 GHz	C275516 C275517 C275520 C275521 C275526 C275529	2024/08/01	
TPR1000	Power rail probe 1 GHz	D010233	2024/08/01	

- SEC (Rainer Boehme) group has a TEK MDO3104 1GHz Oscilloscope + MDO3SA option, no SW
- IFI further has an old TDS200 Scope, Signal generator and ELV charging unit

Power Profiling

Special equipment for power profiling, mixed signal analysis and test is available:

- Otii Ace Pro 50kSPS - 0.4nA-5A - mixed signal - serial port - power supply/analyzer
- RocketLogger
- USB power profiling dongle

Binder MKF56 Temperature/Humidity Chamber -40 to +180 C; 10 % to 98 % RH

Dynamic climate chambers for rapid temperature changes with humidity control, 400, 420, 380 mm inside.

The Binder APT-COM4 control and measurement software needs admin privileges (to install/run), two node-locked licenses available via support, is installed on lab-pc `pacceri.uibk.ac.at`; default password on door for "user" is "1", "admin" is "2"

Misc Tools and Devices

- Div. hand multimeters
- Saleae Logic 8
- Segger J-link Pro
- Different development kits/programming/debug devices

- Raspberry Pi
- Beaglebone Black

- SensePeek PCBite Handsfree Kit

- Thermal Testbed
- Thermal Calibration Facility

Laboratory PC

A laboratory PC `pacceri.uibk.ac.at` with a Windows 11 setup and design tools (Altium, Solidworks, Keysight, Tektronix, Keythley) is available.

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