STS8200 AXE-PM

Make Testing More Valuable

Key Features

- Based on STS8200 analog IC resources with static capability of 2000V/600A and dynamic of 1200V/3000A
- High power DC and AC modules in test head close to DUT for direct-dock
- Dynamic capabilities for switching, short circuit current, RBSOA, Qg, I-Latch, multi-pulse
- Supports multi-task and one socket test
- Target devices:
  - Power Discrete
  - IPM
  - Power Module
  - KGD

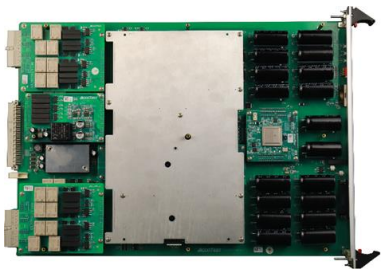
Specifications

	Resource	Specification
Mainframe	FOVI100	Floating VI source with up to 32 channels: ±40V/±1A per channel
	FPVI10_PLUS	Floating VI source with up to 8 channels: ±100V/±10A per channel
	HVI1K	Floating VI source with up to 4 channels: ±1000V/±10mA per channel (stackable to ±2000V)
	DIO2.0_PLUS	Digital I/O with up to 8 channels: 5MHz test rate, 1M vector depth
	QTMU	Time Measurement Unit with up to 4 channels: ±25V, ±2ns ±0.1% of Rd, and 65ps resolution
	QVM	Floating voltage meter with up to 4 channels: ±100V, 18-bit 1MSPS/12-bit 10MSPS digitizer
Test Head	AXE-CBIT	Transfer CBIT (128-bit), DIO (8-channel), QVM (4-channel), QTMU (4-channel) source to TIB interface
	AXE-INF	Isolated Interface Board with 2-channel HVI1K matrix board and power supply
	AXE-VIS	Transfer VI (FOVI*32-channel, FPVI*8-channel) source from standard test box to TIB interface
	CBIT128	Max. to 1 board, 128 relay control bits
	AXE-ZMU	Ciss/Coss/Crss/Rg testing up to 1MHz, with default DC bias of ±40V (upgradeable to ±2000V)
	HPU200	Floating high-power unit with capabilities up to ±30V and ±200A (pulsed) – Gang-able up to 600A
	DTU3K	Dynamic test unit supporting up to 1200V/1000A for switching, 3000A for short circuit current, and 2500V for measurement

Note: *Information is subject to change without prior notice.*

AccoTEST® Business Unit of Beijing Huafeng Test & Control Technology Co., Ltd.
Beijing Headquarters: Building 5, IC PARK, NO.9 Fenghao East Road, Haidian District, Beijing, China.
Tel: +86.10.6372.5600

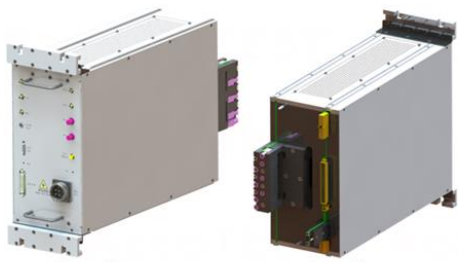
High Power Resources in Test Head



High Power Unit
HPU200

➢ Features

- Single Channel per Board:
  - Includes both PN Source and G Source outputs
- PN Source:
  - Gang-able up to 3xHPU200 to Force up to 600A
  - Patented 6-wire Kelvin methodology
  - **Pulse Mode Voltage Ranges:** ±30V, ±20V, ±10V, ±5V, ±3V
  - **Pulse Mode Current Ranges:** 10mA, 100mA, 20A, 40A, 60A, 100A, 200A
- G Source:
  - Provides a single Force/Sense channel
  - Features four Kelvin connections for Kelvin checks
  - Supports GFS testing
  - **Pulse Mode Voltage Ranges**: ±20V, ±10V, ±5V, ±3V



Front View Rear View

Dynamic Test Unit
DTU3K

➢ Features

- Voltage and current specifications:
  - Bus Voltage: 1200V
  - Peak Voltage Detection: 2500V
  - Dynamic Switching Current: 1200V/1000A
  - Short Circuit Current: 1200V/3000A
  - Over Current Protection (OCP) : 200A to 3000A
- Stray inductance: Less than 20nH output connector
- Over Current Protection Time: <500nS
- Over Current Clamp (OCC): Programable
- High-speed digitizer:
  - Standard configuration: 4 channels,14-bit resolution, sampling rate:125 MS/s
  - Compatibility: supports third-party customized oscilloscopes

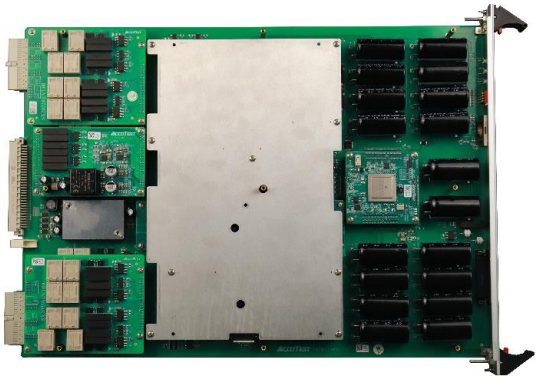
Note: *Information is subject to change without prior notice.*

AccoTEST Inc.
160 E. Tasman Road, Suite #205
San Jose, CA 95134, U.S.A.

AccoTEST Technology Japan Inc.
#601, Shouan 3-20-11, Suginami,
Tokyo Japan 167-0054

AccoTEST Technology (Malaysia) Sdn. Bhd.
PT 9742 No 20 & 20-1,
Jalan SB 7, Taman Seri Bayan
Durian Tunggal, Hang Tuah Jaya, 76100, Melaka.

AccoTEST Electronics (Malaysia) Sdn. Bhd.
29, Lorong Valdor Jaya 3,
Golden Gateway
Perindustrian Valdor, 14200
Sungai Jawi, Penang.



HPU200
High-Power Unit
Supporting up to 200A

Make Testing More Valuable

Key Features

- Single Channel per Board:
  - Includes both PN Source and G Source outputs
- PN Source:
  - Provides a single Force/Sense channel
  - Fan-out capability to 8 channels, with each channel supporting up to 100A, or 200A when two channels are combined
  - Equipped with six Kelvin connections per fan-out channel for Kelvin and contact checks
  - Output relay isolation voltage per fan-out channel: 2000V
  - **Pulse Mode Voltage Ranges:** ±30V, ±20V, ±10V, ±5V, ±3V
  - **Pulse Mode Current Ranges:** 10mA, 100mA, 20A, 40A, 60A, 100A, 200A
- G Source:
  - Provides a single Force/Sense channel
  - Features four Kelvin connections for Kelvin checks
  - Supports GFS testing
  - **Pulse Mode Voltage Ranges:** ±20V, ±10V, ±5V, ±3V
- Additional Capabilities:
  - High-accuracy MVU voltage measurement for both PN Source and G Source
  - 100 KSPS, 16-bit digitizers for simultaneous voltage and current capture
  - Real-time onboard data processing, including averaging, maximum, and minimum values
  - Compatible with STS8200 system resources: FPVI_PLUS, FOVI, QVM, DIO
  - Ground isolation voltage: 100V
  - 8 control bits output with 5V power supply

Note: *Information is subject to change without prior notice.*

AccoTEST® Business Unit of Beijing Huafeng Test & Control Technology Co., Ltd.
Beijing Headquarters: Building 5, IC PARK, NO.9 Fenghao East Road, Haidian District, Beijing, China.
Tel: +86.10.6372.5600

➢ Specifications

PN Source / Measure Voltage Ranges		
Voltage Range	Resolution	Accuracy (±%Rd + Offset)
±30V	16-bit	±0.05% + 9mV
±20V	16-bit	±0.05% + 6mV
±10V	16-bit	±0.05% + 3mV
±5V	16-bit	±0.05% + 1.5mV
±3V	16-bit	±0.05% + 0.9mV

PN Source / Measure Current Ranges		
Current Range	Resolution	Accuracy (±%Rd + Offset)
±200A	16-bit	±0.5% + 100mA
±100A	16-bit	±0.5% + 50mA
±60A	16-bit	±0.5% + 30mA
±40A	16-bit	±0.5% + 20mA
±20A	16-bit	±0.5% + 10mA
±100mA	16-bit	±0.1% + 30μA
±10mA	16-bit	±0.1% + 3μA

G Source Voltage Ranges		
Voltage Range	Resolution	Accuracy (±%Rd + Offset)
-10V+20V	16-bit	±0.05% + 6mV
±10V	16-bit	±0.05% + 3mV
±5V	16-bit	±0.05% + 1.5mV
±3V	16-bit	±0.05% + 0.9mV

MVU Voltage Measuring Accuracy	
Voltage Range	Accuracy (±%Rd + Offset)
±10V	±0.025% + 2mV
±1V	±0.05% + 0.4mV
±100mV	±0.1% + 0.15mV

MVU_PN_X1 Accuracy	
Voltage Range	Accuracy (±%Rd + Offset)
±30V	±0.025% + 6mV
±20V	±0.025% + 4mV
±10V	±0.025% + 2mV
±5V	±0.025% + 1mV
±3V	±0.025% + 0.6mV

Note: *Information is subject to change without prior notice.*

AccoTEST Inc.
160 E. Tasman Road, Suite #205
San Jose, CA 95134, U.S.A.

AccoTEST Technology Japan Inc.
#601, Shouan 3-20-11, Suginami,
Tokyo Japan 167-0054

AccoTEST Technology (Malaysia) Sdn. Bhd.
PT 9742 No 20 & 20-1,
Jalan SB 7, Taman Seri Bayan
Durian Tunggal, Hang Tuah Jaya, 76100, Melaka.

AccoTEST Electronics (Malaysia) Sdn. Bhd.
29, Lorong Valdor Jaya 3,
Golden Gateway
Perindustrian Valdor, 14200
Sungai Jawi, Penang.

➢ Specifications

MVU_PN_X10 Accuracy	
Voltage Range	Accuracy (±%Rd + Offset)
±30V	±0.05% + 1.2mV
±20V	±0.05% + 0.8mV
±10V	±0.05% + 0.4mV
±5V	±0.05% + 0.2mV
±3V	±0.05% + 0.15mV

MVU_PN_X100 Accuracy	
Voltage Range	Accuracy (±%Rd + Offset)
±30V	±0.1% + 0.45mV
±20V	±0.1% + 0.3mV
±10V	±0.1% + 0.15mV
±5V	±0.1% + 0.15mV
±3V	±0.1% + 0.15mV

MVU_G_X1 Accuracy	
Voltage Range	Accuracy (±%Rd + Offset)
-10V+20V	±0.025% + 4mV
±10V	±0.025% + 2mV
±5V	±0.025% + 1mV
±3V	±0.025% + 0.6mV

MVU_G_X10 Accuracy	
Voltage Range	Accuracy (±%Rd + Offset)
-10V+20V	±0.05% + 0.8mV
±10V	±0.05% + 0.4mV
±5V	±0.05% + 0.2mV
±3V	±0.05% + 0.15mV

MVU_G_X100 Accuracy	
Voltage Range	Accuracy (±%Rd + Offset)
-10V+20V	±0.1% + 0.3mV
±10V	±0.1% + 0.15mV
±5V	±0.1% + 0.15mV
±3V	±0.1% + 0.15mV

AWG Specifications			
Resolution	Pattern Depth per Channel	DA Update Rate	AWG Step
16-bit	4K	100 kHz	10 μs

Note: *Information is subject to change without prior notice.*

AccoTEST® Business Unit of Beijing Huafeng Test & Control Technology Co., Ltd.
Beijing Headquarters: Building 5, IC PARK, NO.9 Fenghao East Road, Haidian District, Beijing, China.
Tel: +86.10.6372.5600

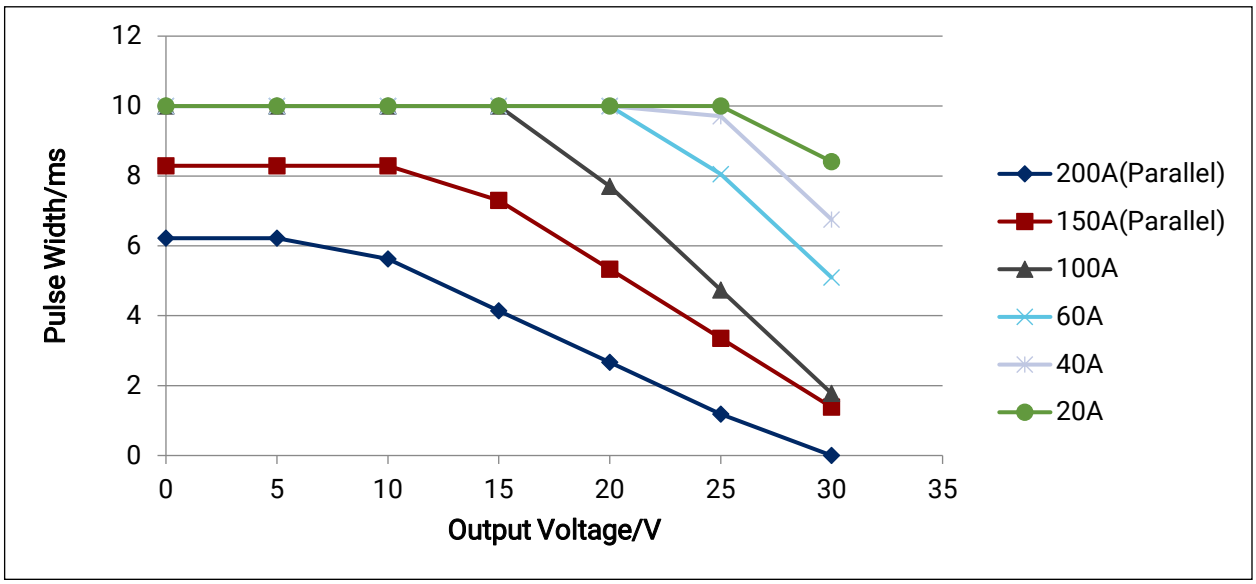
➢ Specifications

Kelvin Measurements				
Measurement Type	**Resistance Range**	**Precision**	**Resolution**	**Accuracy**
PN Source	8 Ω	Low	16-bit	±(10 mΩ + 1% Rdg)
	0.8 Ω	High	16-bit	±(1 mΩ + 1% Rdg)
G Source	80 Ω	Low	16-bit	±(200 mΩ + 1% Rdg)

HPU200_J5V
Maximum Current: 400mA

CBIT Specifications		
Number of CBIT Bits	**Maximum Current per Bit**	**Total Current**
8	100 mA	≤ 400 mA

➢ Pulse Power Output Curves



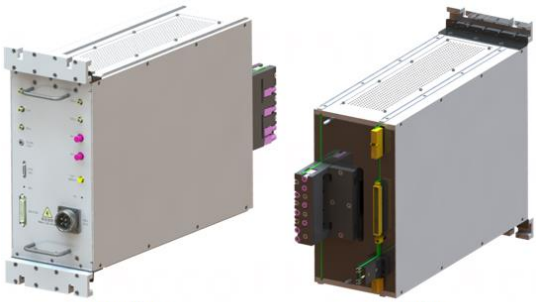
Note: *Information is subject to change without prior notice.*

AccoTEST Inc.
160 E. Tasman Road, Suite #205
San Jose, CA 95134, U.S.A.

AccoTEST Technology Japan Inc.
#601, Shouan 3-20-11, Suginami,
Tokyo Japan 167-0054

AccoTEST Technology (Malaysia) Sdn. Bhd.
PT 9742 No 20 & 20-1,
Jalan SB 7, Taman Seri Bayan
Durian Tunggal, Hang Tuah Jaya, 76100, Melaka.

AccoTEST Electronics (Malaysia) Sdn. Bhd.
29, Lorong Valdor Jaya 3,
Golden Gateway
Perindustrian Valdor, 14200
Sungai Jawi, Penang.



Front View Rear View

DTU3K
Dynamic Test Unit, Supporting Up to 3000A

Make Testing More Valuable

Key Features

- Voltage and current specifications:
  - Bus voltage: supports up to 1200V
  - Peak voltage detection: capable of up to 2500V
  - Dynamic Switching Current: handles up to 1200V/1000A
  - Short Circuit Current: accommodates up to 1200V/3000A
  - Over Current Protection: ranging from 200A to 3000A
- Stray inductance: less than 20nH output connector
- Over Current Protection Time (OCP): <500nS
- Programmable Over Current Clamp (OCC)
- Floating power supply:
  - Programmable floating power supplies: two independent groups from -20V to +20V with a 30V window, specifically designed for external gate drivers
- Programmable inductive loader (optional):
  - Inductive loader: PIL 380μH
- High-speed digitizer:
  - Standard configuration: 4 channels,14-bit resolution, sampling rate:125 MS/s
  - Optional configuration: 8 channels, 10-bit resolution, sampling rate:1.25 GS/s
  - Compatibility: supports third-party customized oscilloscopes
- Internal probes and sensors:
  - Differential voltage probes: 2 channels, supporting up to 2500V, bandwidth >50MHz
  - Current sensors: 3 channels, supporting up to 3000A, bandwidth 50MHz
  - Support: external customized current sensors available
- Communication and control:
  - I2C Bus: For application board integration
- Relay control bits:
  - 48 bits for 5V power supply
  - 24 bits for 12V power supply
- Physical dimensions and weight:
  - Dimensions: 554mm (L) × 161mm (W) × 393mm (H)
  - Weight: 10kg

Note: *Information is subject to change without prior notice.*

AccoTEST® Business Unit of Beijing Huafeng Test & Control Technology Co., Ltd.
Beijing Headquarters: Building 5, IC PARK, NO.9 Fenghao East Road, Haidian District, Beijing, China.
Tel: +86.10.6372.5600

➢ Specifications

Parameter	Range	Accuracy/Details
Bus Voltage (Vbus)	10V to 1200V	±(1% of Setting + 0.4V)
VPeak Detection	Up to 2500V	±3% of Reading
Dynamic Switching Current (Ic)	Up to 1000A	±3% of Reading (≥150A) ±(5% of Reading + 1A) (for <150A)
Short Circuit Current (Isc)	Up to 3000A	±3% of Reading (≥150A) ±(5% of Reading + 1A) (for <150A)
Tsc	1-10μs	0.1μs
Over Current Protection	200A to 3000A	<20% of Setting;
Floating Power Supply	-20V to +20V (30V Window)	2% FS (for External Gate Driver)
Control Bits		
5V Control Bits	48-bit	100mA load per bit
12V Control Bits	24-bit	400mA load per bit

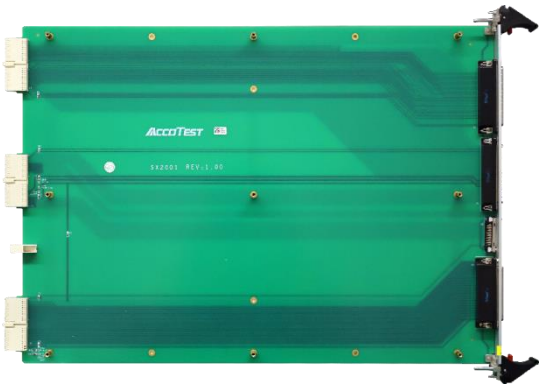
Note: *Information is subject to change without prior notice.*

AccoTEST Inc.
160 E. Tasman Road, Suite #205
San Jose, CA 95134, U.S.A.

AccoTEST Technology Japan Inc.
#601, Shouan 3-20-11, Suginami,
Tokyo Japan 167-0054

AccoTEST Technology (Malaysia) Sdn. Bhd.
PT 9742 No 20 & 20-1,
Jalan SB 7, Taman Seri Bayan
Durian Tunggal, Hang Tuah Jaya, 76100, Melaka.

AccoTEST Electronics (Malaysia) Sdn. Bhd.
29, Lorong Valdor Jaya 3,
Golden Gateway
Perindustrian Valdor, 14200
Sungai Jawi, Penang.



AXE-CBIT
CBIT Interface Board

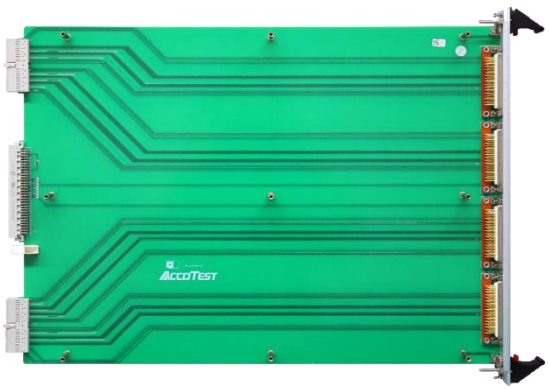
Make Testing More Valuable

Key Features

- Interface transfer capabilities, transfers CBIT, DIO, QVM, and QTMU sources from the standard test box to the TIB interface of the test head.
  - 4-channel Time Measurement Unit (QTMU_PLUS).
  - 8-channel Digital I/O (DIO2.0_PLUS).
  - 4-channel High-Precision Voltage Meter (QVM).
  - 128 relay control bits (CBIT128).
  - Top of Form
  - Bottom of Form

Note: *Information is subject to change without prior notice.*

AccoTEST® Business Unit of Beijing Huafeng Test & Control Technology Co., Ltd.
Beijing Headquarters: Building 5, IC PARK, NO.9 Fenghao East Road, Haidian District, Beijing, China.
Tel: +86.10.6372.5600



AXE-VIS
VI Source Interface Board

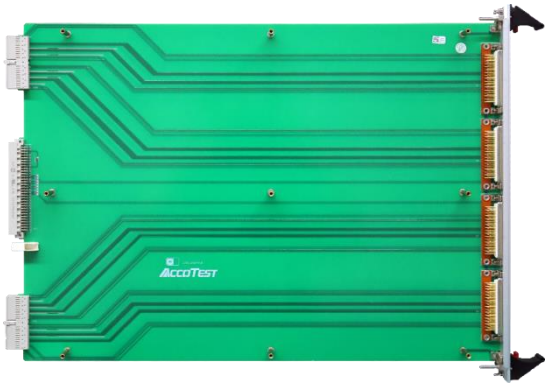
Make Testing More Valuable

Key Features

- VI source integration: Transfers VI source from the standard test box to the TIB Interface of the test head.
  - 32-channel floating VI source: 40V/1A per channel (FOVI100)
  - 8-channel floating VI source: 100V/10A per channel (FPVI_PLUS)

Note: *Information is subject to change without prior notice.*

AccoTEST® Business Unit of Beijing Huafeng Test & Control Technology Co., Ltd.
Beijing Headquarters: Building 5, IC PARK, NO.9 Fenghao East Road, Haidian District, Beijing, China.
Tel: +86.10.6372.5600



AXE-INF
Interface Board

Make Testing More Valuable

Key Features

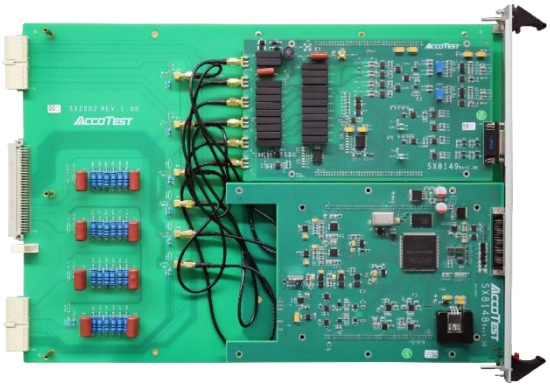
- Isolated communication board: connects the EIB of the STS8200 base system to the test head
- 2-Channel HVI1K matrix board: supports up to 2000V/10mA or 1000V/20mA
- Power supply: provides ±48V from the STS8200 base system to the test head

Specifications

Item	Description	Specification
Power Supply	DC_+48V	5A
	DC_-48V	1A
	DC_3.3V	1.5A
I2C Communication Bus	Communication Speed	1MHz

Note: *Information is subject to change without prior notice.*

AccoTEST® Business Unit of Beijing Huafeng Test & Control Technology Co., Ltd.
Beijing Headquarters: Building 5, IC PARK, NO.9 Fenghao East Road, Haidian District, Beijing, China.
Tel: +86.10.6372.5600



AXE-ZMU Impedance Measurement Unit

Make Testing More Valuable

Key Features

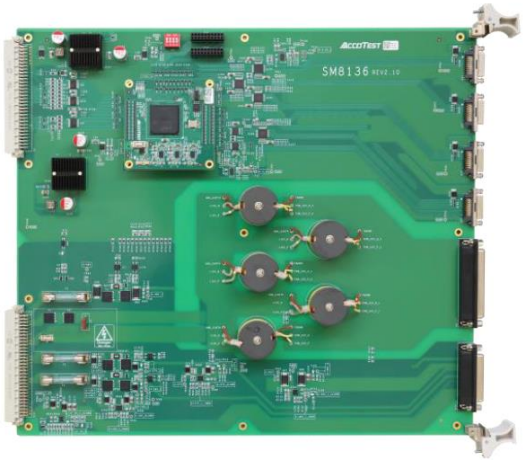
- Testing capabilities: supports measurements for Rg, Ciss, Coss, Crss, and L
- AC frequency range: 100 kHz to 1 MHz
- DC bias range: default up to 40V, with an upgrade option to 2000V

Specifications

Parameter	Value	Accuracy
Maximum DC Offset	±40V	16-Bit, ±0.05%
Maximum AC RMS	0.005V-1V	16-Bit, ±10%
Frequency Range	100 kHz ~ 1 MHz	10 kHz Step, ±0.01%
Impedance Measurement Ranges		
30Ω, 100Ω, 300Ω, 1kΩ, 3kΩ, 10kΩ		
Test Items	Range	Accuracy (@1 MHz/0.5V)
Ciss, Crss, Coss	10pF - 100pF	±(5% + 0.2pF)
	100pF - 0.1μF	±(5% + 2pF)
Rg	0.1Ω - 100Ω	±(5% + 0.05Ω)
	100Ω - 3kΩ	±(3% + 0.5Ω)
L	0.1μH - 1mH	±(5% + 0.01μH)

Note: *Information is subject to change without prior notice.*

AccoTEST® Business Unit of Beijing Huafeng Test & Control Technology Co., Ltd.
Beijing Headquarters: Building 5, IC PARK, NO.9 Fenghao East Road, Haidian District, Beijing, China.
Tel: +86.10.6372.5600



EIB
Electrical Interface Board

Make Testing More Valuable

Key Features

- Communication interface to external equipment's such as UIS200, DVX900 and AXE-PM Test Head
- Provides ±48V from the STS8200 mainframe base system to auxiliary resources
- Up to four high speed bus interface at (100Mbps)

Note: *Information is subject to change without prior notice.*

AccoTEST® Business Unit of Beijing Huafeng Test & Control Technology Co., Ltd.
Beijing Headquarters: Building 5, IC PARK, NO.9 Fenghao East Road, Haidian District, Beijing, China.
Tel: +86.10.6372.5600

China

Headquarters
Beijing Huafeng Test & Control Technology Co.,Ltd.
Building 5, IC PARK, No.9 Fenghao East Road,
Haidian District, Beijing, 100094 China.

T: +86.10.6372.5600
F: +86.10.6372.5400
info@accotest.com

Shanghai – Tianjin - Chengdu – Hangzhou – Shenzhen - Suzhou – Wuxi – Xi'an

Global Offices

Americas
AccoTEST Inc.
160 E. Tasman Road, Suite #205 San Jose, CA 95134, U.S.A.

Paul Emmett
T: +1.925.699.9190
paul.emmett@accotest.com

Customer Service: Hunter Zhang
T: +1.408.480.9045
hunter.zhang@accotest.com

Japan
AccoTEST Technology Japan Inc.
#601, Shouan 3-20-11, Suginami, Tokyo Japan 167-0054.

Katsumoto Hayashi
T: +81.901708.2185
katsumoto.hayashi@accotest.com

Malaysia
AccoTEST Technology (Malaysia) Sdn. Bhd.
PT 9742 No 20 & 20-1, Jalan SB 7, Taman Seri Bayan Durian Tunggal, Hang Tuah Jaya, 76100 Melaka, Malaysia.

bryan.leow@accotest.com

AccoTEST Electronics (Malaysia) Sdn. Bhd.
29, Lrg Valdor Jaya 3, Golden Gateway Perindustrian Valdor, 14200 Sg. Jawi, Penang, Malaysia.

nic.tan@accotest.com

Representatives

South Korea Representative
LEITIK
#1101-1 KCC Welltz Valley,
Gasandigital 1 ro 205,
Gemchon-gu, Seoul,
Korea 08501.

Daniel Moon
T: +82.10.4104.9876
daniel.moon@accotest.com

Taiwan Representative
E-TEST
11F-1, No.9, Chung-Hua Rd.Sec.3,
Hsinchu 300, Taiwan.

HJ Liu
T: +886.03.5268.630
sales@etest.com.tw

Europe Representative
C-TEC srl
Via Torri Bianche 1, Palazzo Sequoia, 20871 Vimercate (MB), Italia.

Fiorenzo Ballabio
T: +39.380.6328.183
T: +39.335.236.670
info@c-tec.it
enzo.ballabio@c-tec.it

C-TEC srl
Zona Industriale,
Strada Ottava, 5
95121 Catania (CT), Italia.

Alexis Di Liberto
T: +39.351.521.7678
T: +39.380.632.8183
info@c-tec.it
alexis.diliberto@c-tec.it