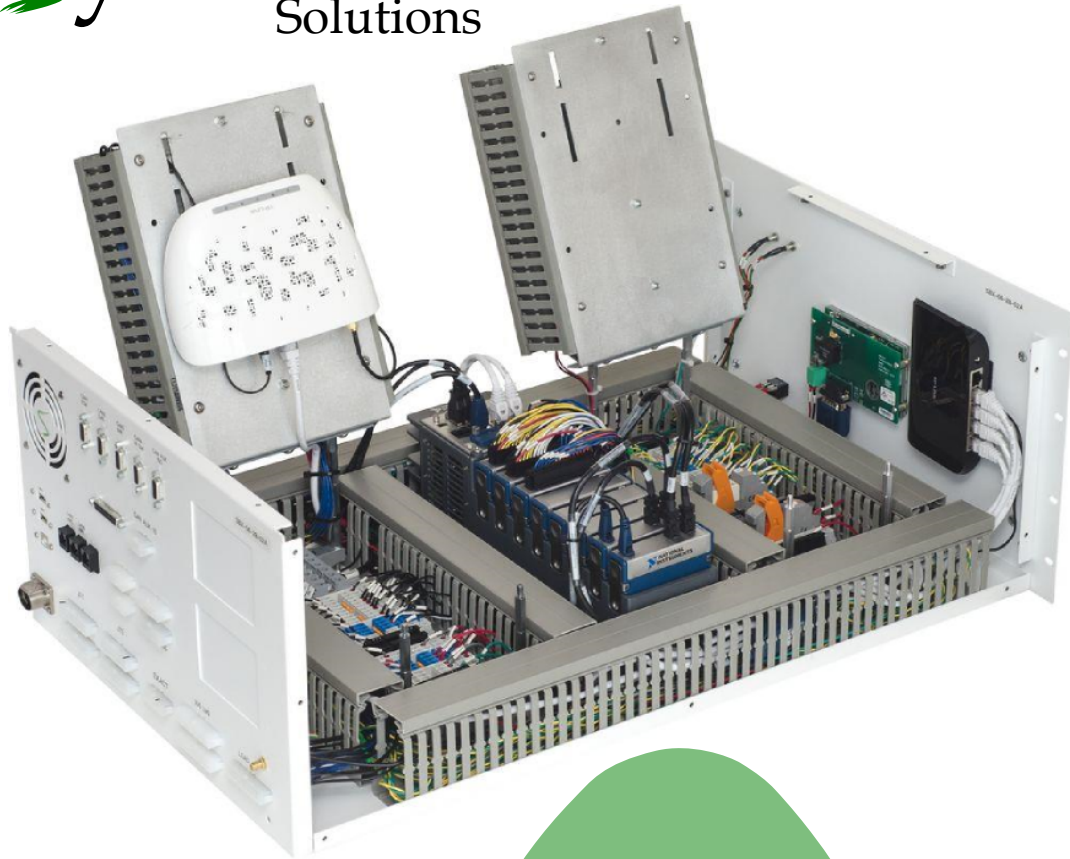


SBX

by  **Synovus**
Solutions

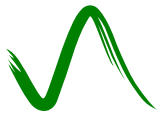


Available in 4U-20in depth and 6U-26in (shown above)

SBX is a standard enclosure for 19in racks using DIN rail components found in control panels. It meets the demand for reliable yet flexible test systems, to accelerate the development of your prototypes through multiple iterations.

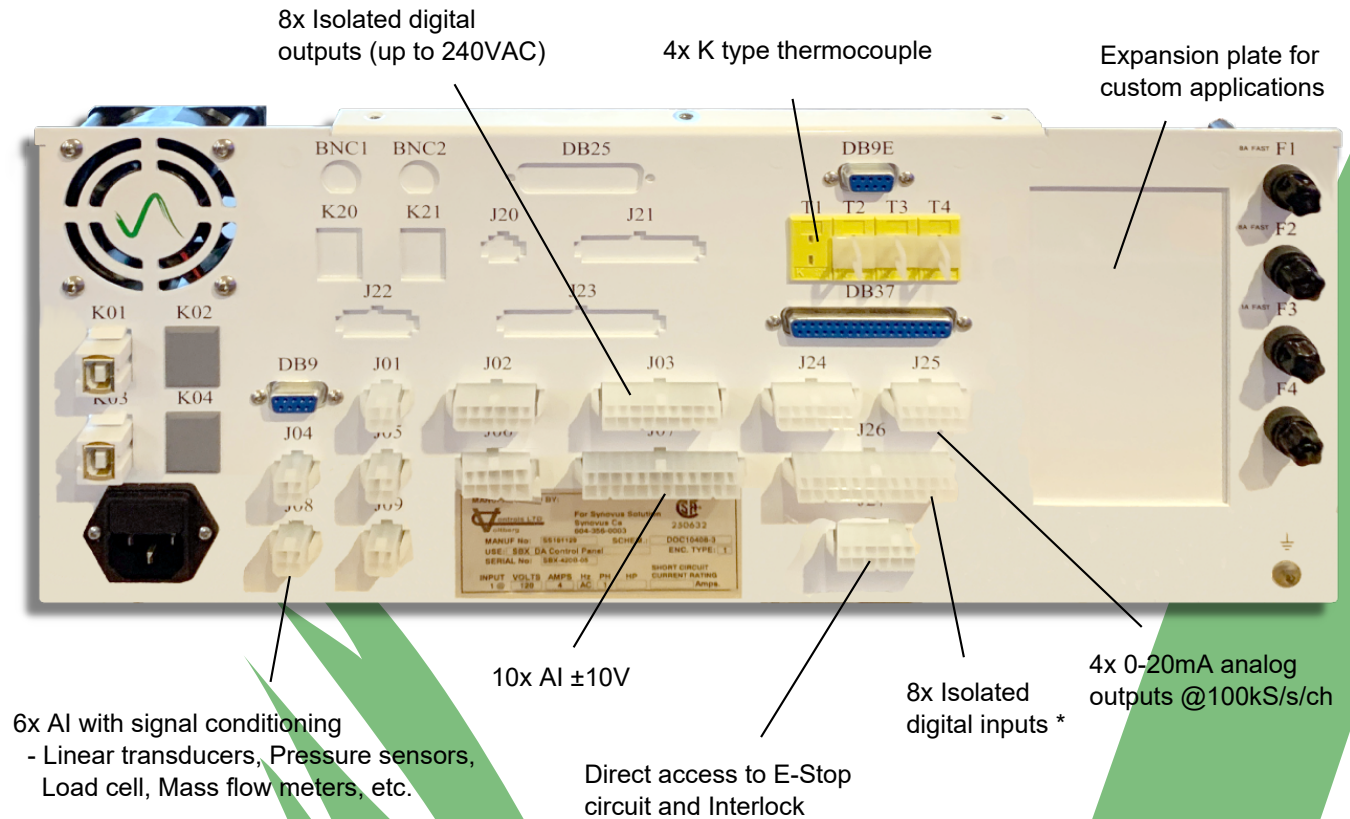


Front Panel offers safety controls and indicators with optional leads to built-in oscilloscope



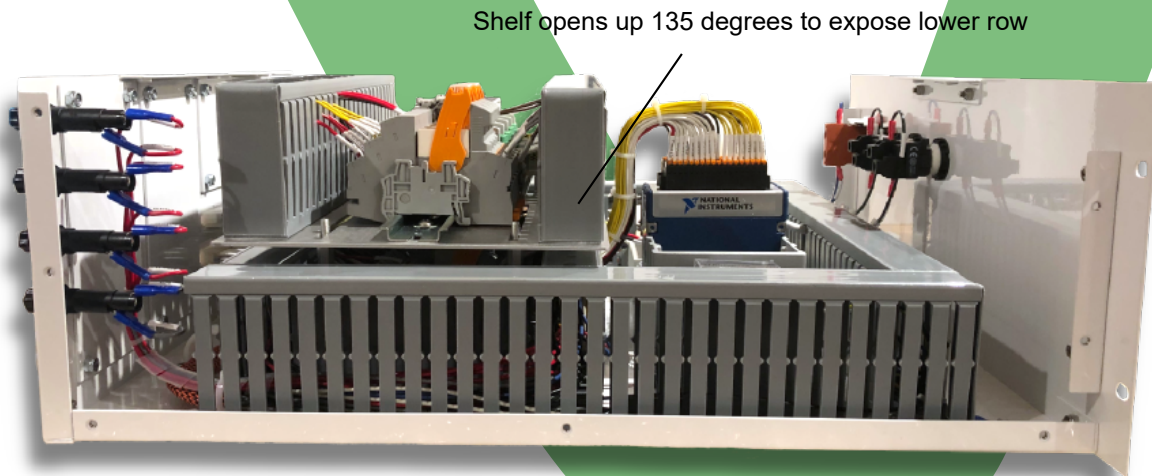
Easy to use back panel with room for expansion

- Includes typical peripherals and signal conditioning
- Standard Molex connectors
- Re-usable in multiple test setups
- Integrated safety chain with hardware watchdog

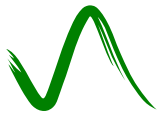


All parts certified UL/CSA and CE

* Isolated DI are 24VDC but can be customized up to 240VAC



Hinged shelf offers higher density and extra space for your custom changes



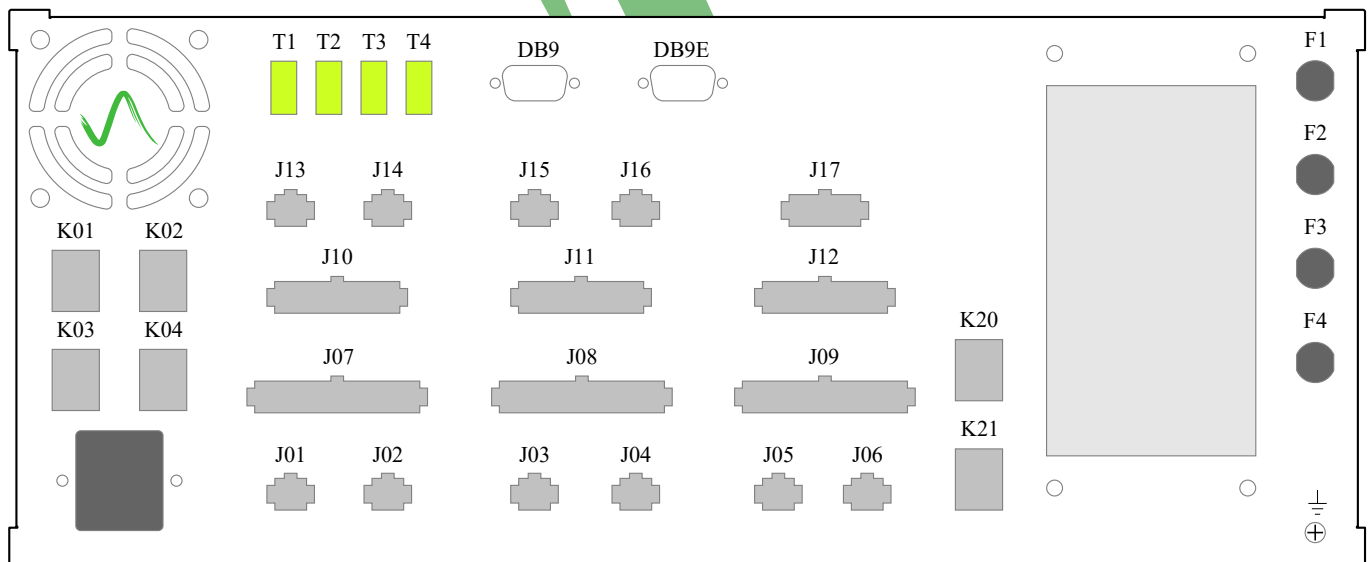
SBX 420C Detailed connections

Detailed Molex Connectors pinouts on SBX-420C

ID	Molex Mini-Fit Jr.	Functions
J01-06	2x2	Differential analog input with optional Signal Conditioning inside SBX 24VDC and GND pins available Supports $\pm 10\text{VDC}$, $\pm 200\text{mV}$, 4-20mA, $\pm 20\text{mA}$, Thermocouples, 16 bits accuracy
J07-09	2x12	2 isolated digital outputs (up to 240VAC, 6A) 2 isolated digital inputs (24VDC standard, Optional 12VDC, 120/240AC) 1 analog output (0-20mA, capable 0-5V and 0-10V) Multiple 24VDC, 24VDC "Safe" and GND pins
J10	2x8	External Safety E-stop relay "Interlock" signal (to indicate ready to test) 2 isolated digital outputs (up to 240VAC, 6A) 1 analog output (0-20mA) 1 digital output (directly connected to 9375) 2 digital inputs directly connected to 9375) Multiple 24VDC, 24VDC "Safe" and GND pins
J11	2x8	2 differential analog inputs ($\pm 10\text{VDC}$, $\pm 200\text{mV}$) 2 isolated digital outputs (up to 240VAC, 6A) 2 digital output (directly connected to 9375) 1 digital inputs directly connected to 9375) Multiple 24VDC, 24VDC "Safe" and GND pins
J12	2x10	8 differential / 16 single-ended analog inputs
J13-17	2x3, 2x4 and 2x6	Expansion, total of 40 pins for custom use

Notes:

- Isolated digital inputs designed for 24VDC but customizable to 12VDC, 120/240VAC
- Isolated digital outputs can support up to 240VAC (max 6A)
- Analog inputs support $\pm 200\text{mV}$ to $\pm 10\text{V}$ and $\pm 20\text{mA}$ or 4-20mA with built-in signal conditioning on 6 channels
- Analog outputs are 0-20mA which can act as 4-20mA, 0-5V and 0-10V with proper resistors (8 outputs modules also available)



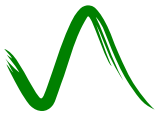
Back panel layout for SBX-420C

Standard thermocouples connectors are Type-K but can be replaced by type-T upon request

Expansion plate size is 5inx3in with 4.6in x 2.6in usable

Connectors J13 to J75 offer empty 40 pins for custom connections with DUT or equipment

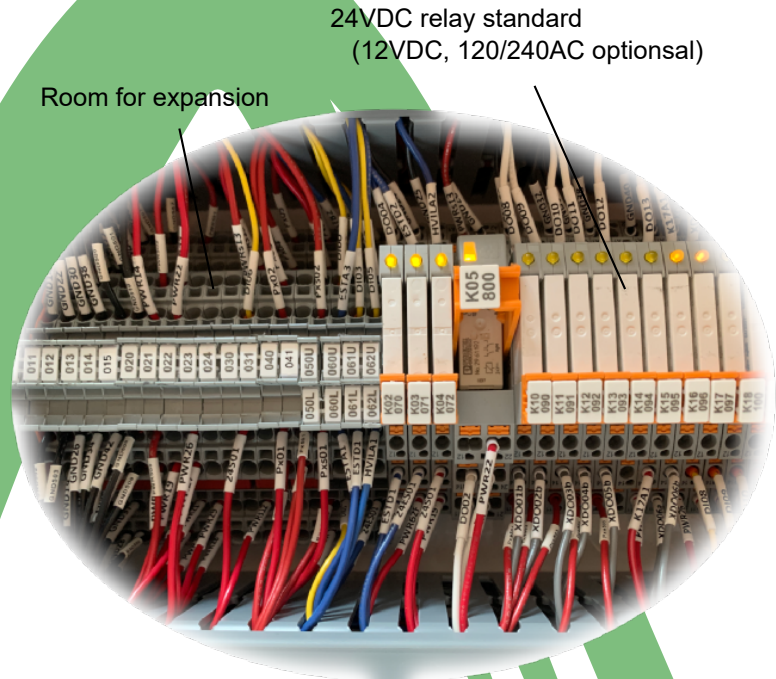
K20 and K21 are standard keystone connector that can be used for BNC, RJ45, USB, 3.5mm audio, HDMI, M8, and more



A customizable DAQ enclosure for your ATS

DAQ includes

- 9174 or 9185 chassis
- 9205 (32x analog inputs)
- 9375 (16 DI, 16DO)
- 9265 (4x analog outputs)
- one open slot



High density connections with easy to follow wires



Accelerate your innovation today with reliable and flexible Automated Test Systems

604-356-0003 or info@synovus.ca