Uson

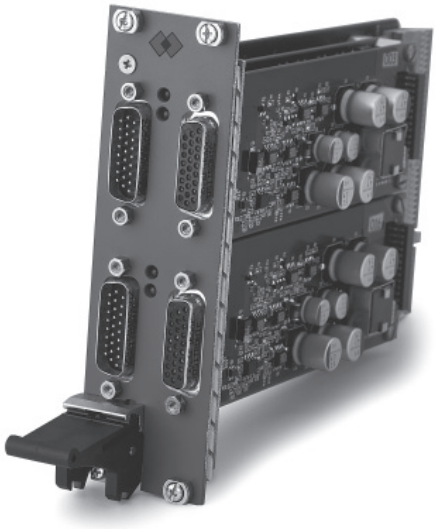
Vector
Leak Test Control Unit

The Vector is built on a universal platform using common hardware and software across the entire family which increases reliability, reduces downtime and significantly lowers overall ownership costs.

The Leak Test Control Unit (LTCU) is the core of Vector's power and flexibility. Each LTCU features a 1-gigaFLOPS[1] RISC[2] microprocessor and is available as a single-channel or dual-channel module.

Each channel can accept up to six sensor inputs that can be configured either as low-sensitivity (16-bit) or high- sensitivity (24-bit) and up to eight discrete outputs, four discrete inputs and one analog output.

The eight discrete outputs are typically used for pneumatic control and the analog output is typically used to control an electronic regulator.



Depending upon the configuration of the Vector selected for purchase, up to five LTCUs can be installed in the tester. With five LTCUs, a Vector tester can perform up to ten tests simultaneously and independently.

1 FLOPS: Floating Point Operations per Second
2 RISC: Reduced Instruction Set Computer

Specifications

Form Factor	CompactPCI®	**Manufacturing Standards**	ISO 9001:2000
Height	3U	**Discrete Outputs**	8 optically isolated outputs / channel
Width	8HP (2 Slots)	**Discrete Inputs**	4 optically isolated inputs / channel (can be used as conditional inputs)
Analog Module Input (per channel):	6 A/D Inputs (2 @ 24 bit; 4 @ 16 bit)	**Low Level Sensor Types**	5.0 V Max
Analog Module Output (per channel)	12 bit 0-10V D/A Open or closed loop	**Low Level Sensor Gains**	1, 2, 4, 8, 16, 32, 64

Available Configurations:

Channel Configuration:
- Single Channel
- Dual Channel

Channel A Sensitivity
- Standard Sensitivity (0.2%)
- High Sensitivity (0.05%)

Channel A Test (Accept/Reject) Sensor Inputs
- One Test Input
- Two Test Inputs

Channel A Reference Sensor Inputs
- No Reference Sensor Inputs
- Two Reference Sensor Inputs
- Four Reference Sensor Inputs

Channel A Analog Output
- No Analog Output
- One Analog Output

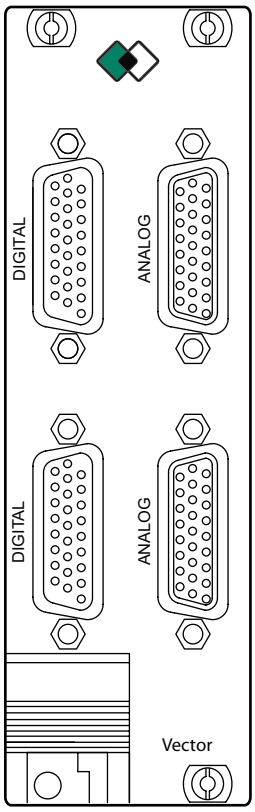
The following options require a dual-channel LTCU:

Channel B Sensitivity
- Standard Sensitivity (0.2%)
- High Sensitivity (0.05%)

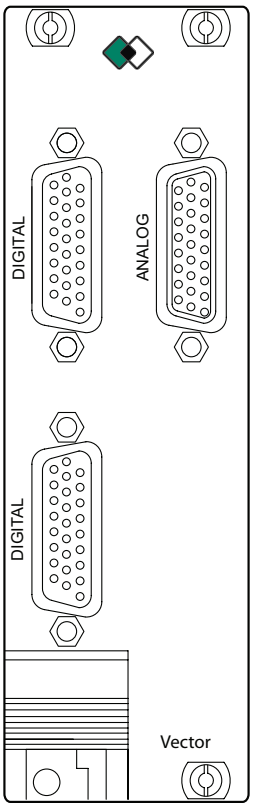
Channel B Test (Accept/Reject) Sensor Inputs
- One Test Input
- Two Test Inputs

Channel B Reference Sensor Inputs
- No Reference Sensor Inputs
- Two Reference Sensor Inputs
- Four Reference Sensor Inputs

Channel B Analog Output
- No Analog Output
- One Analog Output



Dual-Channel LTCU



Single-Channel LTCU

Uson may make changes to specifications and product descriptions at any time without notice.

Document 00000 Rev 3

Uson LP
8640 North Eldridge Parkway Houston, Texas 77041 U.S.A.
Tel +1 281-671-2000 **Fax** +1 281-671-2001 **Email** info@uson.com
www.uson.com

Uson Delivers.