

# Tracewell L1 T-Flex Systems

## *Delivering IBM PureFlex Capabilities Beyond the Back Office*

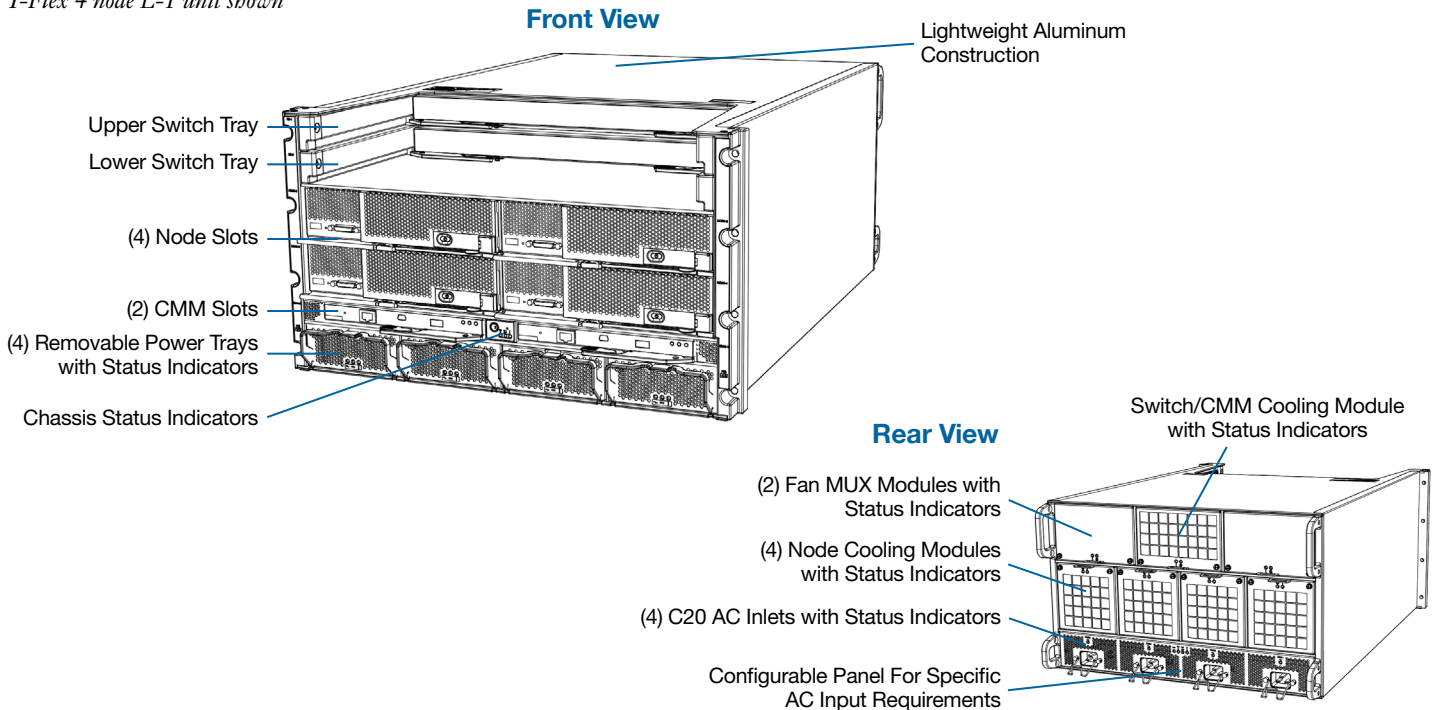
The Tracewell T-Flex system is ideal for military and commercial programs that require the capabilities of IBM PureFlex in a small or rugged form factor. The T-Flex family enables users to deploy the same hardware and software solutions used in their back offices in a wide variety of mission environments. These systems are designed to manage data intensive applications including radar, data mining and analytics, advanced systems networking, security and cloud computing.

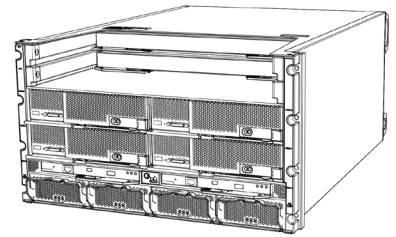
The Tracewell T-Flex accepts all the standard nodes of a PureFlex system—if a node works in an IBM Flex System, it will work in a Tracewell system. The T-Flex product line can be easily updated as the latest compute nodes, storage products and system networking technologies become available from IBM. This provides customers the greatest performance advances possible, with a solid technology foundation and roadmap. The T-Flex can integrate other specialty technologies to deliver the most advanced applications wherever they are needed.

- Ideal for military and commercial programs that require a small or rugged form factor.
- Designed to manage data intensive applications, such as data mining and analytics.
- Accepts all standard nodes of an IBM PureFlex system.
- Can easily integrate other specialty technologies to deliver advanced computing capabilities.

## T-Flex L1 Features

*T-Flex 4 node L-1 unit shown*





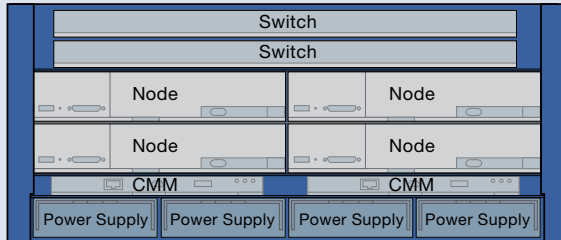
## LI Specs At-A-Glance

Use Case	For demanding environments with size, weight and power constraints, such as aircraft and shipboard installations, as well as shielded transit case systems. Ideal for development and co-location with other commercial equipment.
Chassis Construction	Milled bonded aluminum
Processors	SandyBridge and IvyBridge high-performance embedded processor support
I/O Modules	2 high-speed switch bays on all units for ethernet, fibre channel
I/O Power Connections	All I/O front accessible for rack installations I/O includes keyboard, video, mouse (KVM), power and networking A/C power connectors on rear of chassis
Power Supply	4 power supplies for 4 and 8 node systems 90–264 VAC, 47–440 Hz input 1350 W @ 120 VAC; 2500W @ 240 VAC Redundant operations available for load-balancing and failover
System Management Hardware	Dual chassis management modules
EMI Shielding	Available in normal data center class FCC emissions and Mil-std 461 shielded product
Environmental Considerations	Operating Temperature: 5°C (41°F) to 45°C (113°F), 20% to 80% relative humidity (non-condensing) Non-Operating Temperature: 0°C (32°F) to 50°C (122°F), 8% to 80% relative humidity (non-condensing)
Rack Mounting & Installation	Tray mountable
Cooling	Blades: Four field replaceable high-performance 80mm fan modules Switches and CMM: Field replaceable dual 60mm fan modules Fans: Two fans in series providing cooling redundancy



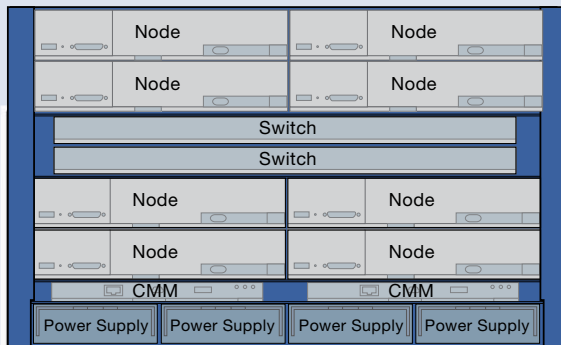
## L1 Configurations

### L1 4 Node Configuration



- 4 Single high, single wide or 2 single high double wide compute nodes
- 6U chassis height
- 2x switch modules
- 2x chassis management modules
- N+1 redundant 90-264 VAC power supplies
- Dimensions: 19" W (48.26 cm) x 10.5" H (26.67 cm) x 25 D (63.5 cm)

### L1 8 Node Configuration



- 8 single high, single wide or 4 single high, double wide compute nodes
- 9U chassis height
- 2x switch modules
- 2x chassis management modules
- N+1 redundant 90-264 VAC power supplies
- Dimensions: 19" W (48.26 cm) x 15.75" H (40 cm) x 25" D (63.5 cm)

## About Tracewell Systems

Tracewell Systems is the company the nation's largest military and commercial organizations turn to when they need powerful and reliable computing solutions in environments where size, weight and power constraints pose challenges.

Tracewell applies its engineering expertise to the best commercial technologies on the market to deliver them in small, light and rugged form factors. An unrelenting dedication to engineering client success drives Tracewell to solve mission problems in new and innovative ways. Since 1973, the company has provided design, engineering and manufacturing services, and today delivers new categories of computing systems that collect, analyze and distribute intelligence in any environment.



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