

# SATELLITE OPERATIONS

## SIGNAL CAPTURE, EMULATION, & TRAINING

### DRAMATIC REDUCTION IN SWaP AND INCREASED PERFORMANCE

#### HIGHLIGHTS

##### SWaP CONSOLIDATION

Dense computing and efficient architecture means you can **meet stringent system engineering constraints** and performance requirements with less hardware.

##### COTS TECHNOLOGY

Affordable, leading commercial technologies seamlessly integrated to **maximize system efficiency**, performance, and cost.

##### HIGH-PERFORMANCE

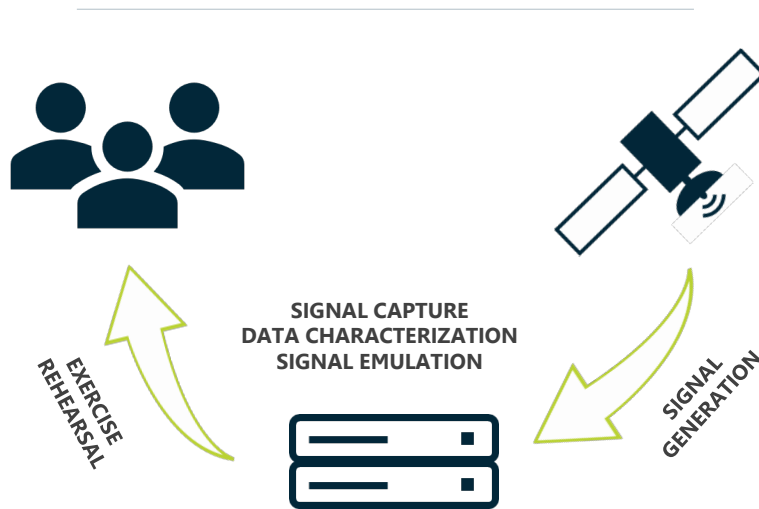
Designed with a 160 lane internal PCIe bus enabling flexible lane allocation for **optimized data movement** per use case.

##### MODULAR FLEXIBILITY

One-size doesn't fit all edge computing projects. Deploy infrastructure that is **designed for your data movement needs**.

#### THE MISSION:

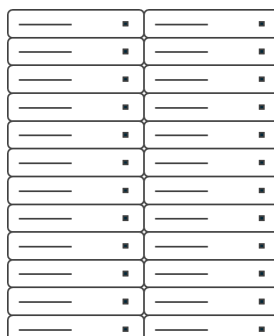
Provide a virtual signal environment for advanced training, development, and exercise rehearsal.



**TEST USING REAL DATA FOR REALISTIC TRAINING**

#### THE OBJECTIVE:

Double virtual signal environment while maintaining or decreasing space, weight, and power (SWaP) requirements.



**EXISTING**

To achieve objective with existing solution would require:  
 2 MORE PALLETS (~24U)  
 - or -  
 2 FABRICXPRESS (4U)



**FX**

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# SATELLITE OPERATIONS SIGNAL CAPTURE, EMULATION, & TRAINING

## THE RESULTS:

### PERFORMANCE

**2x** & **66%**  
Bandwidth Increase Less Cores

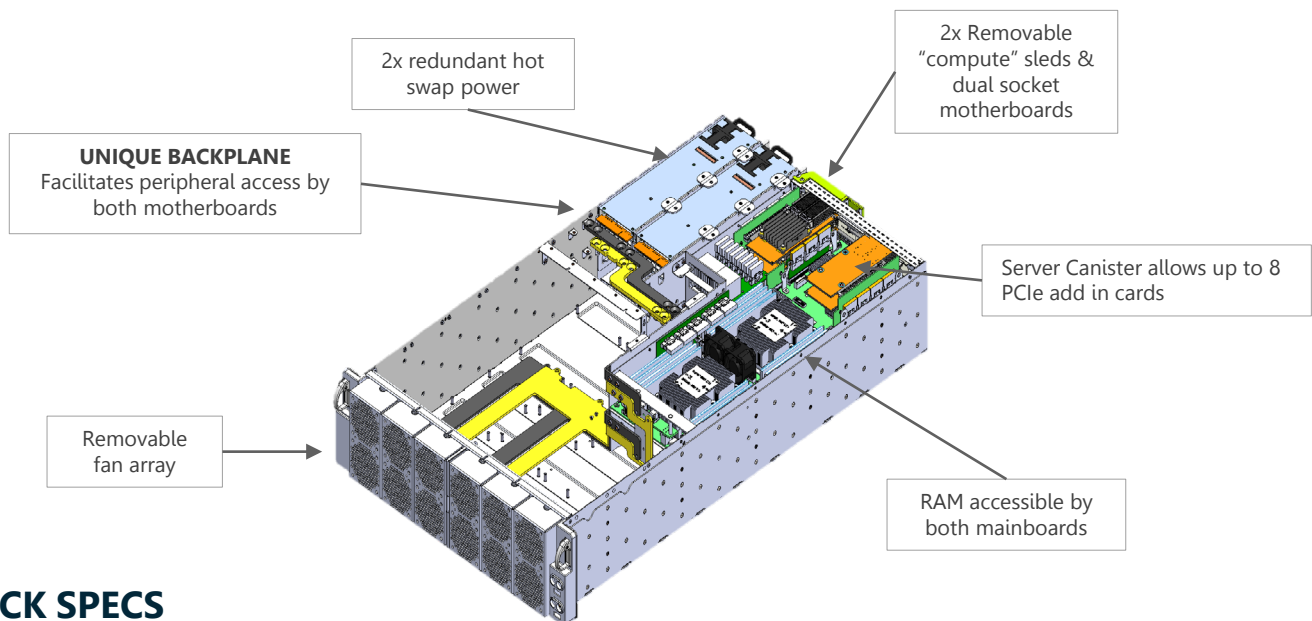
### SPACE & WEIGHT

**4** vs **24**  
Rack Units

### POWER

**73%**  
Less Wattage

## DENSE COMPUTING IN A SMALL FOOTPRINT - FABRICXPRESS™



## FX QUICK SPECS

CPU	Up to 224 Logical Cores
Capacity	Up to 1.1 PB NVMe SSDs
PCIe Cards	Up to 10 Slots for FPGA/GPU/Specialty NICs/NICs
RAM	Up to 4 TB RAM
IOPs	20 Million
Throughput	240Gb/s

### MODULAR CAPACITY & COMPUTE:

**INCLUDES:** One 24x2.5" NVMe SSD Module

**AND THEN CHOOSE:** One additional 24x2.5" NVMe SSD Module – OR two modules consisting of:

- 2 FHFL Double Wide PCIe Cards
- 4 FHFL Single Wide PCIe Cards
- 24x2.5" NVMe SSDs

**INCREASE COMPUTING POWER**

**DECREASE SWaP**