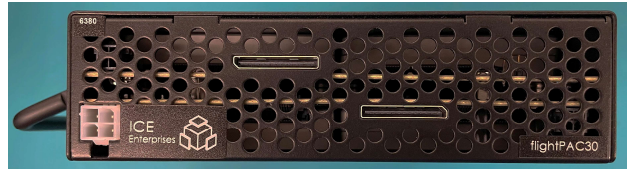


## 30 Terabytes OCulink Direct Attached Storage – Small, Portable

### Overview

The *flightPAC* storage accessory is a direct-attached device capable of 4 GBytes/sec sustained read/write. The interface is via two 8-lane OCulink connections direct to the PCIe bus of the host computer. The physical size of the flightPAC is the size of a full-height CDROM. The unit is sized to actually fit in a CDROM bay of a standard computer case.



### Features

- OCulink PCIe Dual 8-Lane connections
- Quad 4-Lane NVMe accessibility
- Standard File Structure with EXT4/XFS
- Available ICEFS for direct-to-device access (Record/Play)
- ICEFS is fully integrated into Linux®
- 60-Watt maximum draw at maximum write rates
- 4+ GBytes/sec sustained write
- Carrying handle for ease in portability
- CDROM-size physical profile / fits in full height CDROM bay
- Integrated quiet fans for active cooling
- Included Power Supply with locking 4-pin Molex 12V connection
- OCulink cables included
- Use with the ICE-PEX-OC4 Dual OCuLink Adapter card (sold separately) to connect to x86 host

### Applications

- Extreme Speed Digital Recording
- Portable Mass Storage
- Mobile archive availability
- Eliminate the need for data offload
- Scenario Library Playback Availability
- Instant Mass Storage Scenario Playback
- Dynamic Shift between scenarios
- Analog or Signal Scenario libraries



ICE-PEX-OC4 Adapter  
(16-Lane PCIe)

### 1GHz Bandwidth Analog Scenario

The above figure shows the flightPAC30 atop a short 15inch depth 1U (Not Included) with the ICE-A2Dm20 (Not Included). This configuration is used for recording 1 GHz of bandwidth for 1.5 hours. The data is then easily portable. Offloading 30 Terabytes of data over a 10GbE link would take nearly 10 hours.

This same Record-Offload scenario applies to direct-digital scenarios.

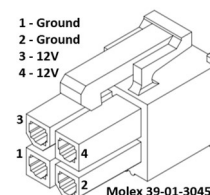
## Specifications

### Functional

Connector	Manufacturer	Part Number	Description	J-Number
<b>Signal Connections</b>				
8-Lane OCulink	Amphenol	G14B801X1XXXXHR	OCulink 8x	J2
8-Lane OCulink	Amphenol	G14B801X1XXXXHR	OCulink 8x	J3
<b>Board Connection</b>				
Power Connection on flightPAC	Molex	Molex 50-36-2306	12 Volt 4-pin female	J1
Mating Connection to flightPAC	Molex	Molex 39-01-3045	4-pin male (For Pinout See figure below)	
<b>Cable (2 Required)</b>				
8-Lane to 8-Lane Cable	Amphenol	OCL4-8X-8X-0.5M	2 Cables Included	
<b>Physical Connection</b>				
See Signal Connections				

### Electrical

Parameter	Voltage				Unit
Power Supply Input	120 V	100-240	50-60Hz	1.3A – 0.5A	Volts
Power Supply Output	12 V			7.5A	Volts
Typical Power Consumption(Idle)	12 V			1.6A (20 Watts)	
Typical Power Consumption(Max)	12 V			~5.0A (60 Watts)	
Typical Power Consumption(4GB/S)	12 V			~4.4A (53 Watts)	
Power Supply (AC to DC) included	12 V	90 W	7.5 A	ME90A1250F02	



### Mechanical Dimensions and Weight

<b>Width</b>	5.75 in (without handle) 6.3125 (with handle folded) 7.375 (with handle unfolded)
<b>Length</b>	8.00 in
<b>Height</b>	1.625 in
<b>Weight</b>	2 Pounds and 2 Ounces



### Environmental

Operating Temperature Range	0 to +55	°C	Airflow required <sup>1</sup>
Non-Operating Temperature Range	-20 to +70	°C	
Relative Humidity Range (Operating)	10 to 80 %		non-condensing

### PCI-express 16 Lane Interface Card

Connector	Manufacturer	Part Number	Description	Designation
<b>Signal Connections</b>				
16-Lane PCIe Gen 3	ICE	PEX-OC4	PCIe Card	16 Lane PCIe Slot
8-Lane OCulink	ICE	PEX-OC4	PCIe Card	Port 1
8-Lane OCulink	ICE	PEX-OC4	PCIe Card	Port 2

### Notes

- The headers and components are static sensitive: Do not handle without observing proper procedures for the handling of ESD sensitive materials.

<sup>1</sup> Airflow: Air flow is provided with 3, always on, quiet fans.

- Make sure all connectors are properly oriented before installation

## Revisions

Revision No.	Date	Description
1.0.0	13 May 2021	Data Sheet
1.0.1	22 Oct 2021	Added Power pinouts and additional environmental info
1.0.2	14 Jul 2022	Updated features list

# ICE Enterprises *Entering The 3<sup>rd</sup> Decade of Innovative Solutions*

