

Photonic Resource Unit 1000 (PRU)

Key Benefits

- Latency Direct connect, all photonic fabric provides the lowest possible latency allowing valuable machine resources to be directly connected in a machine cluster
- Distance Photonics eliminates the distance and physical locality challenges in the data center
- Complexity Removing stacked hierarchies of switches, protocols and overlays is the most direct way to remove complexity
- Efficiency Grouping resources via direct connect around workloads resolves the stranded resource challenge
- Security Workloads do not transgress over racks, spines and cores.
- OPEX Increased resource efficiencies means getting more from less: Less power, less cooling, less
- Better TCO By decoupling the resource upgrade path from server upgrade path, users have a better fidelity of choice when and what to upgrade

Drut's Photonic Resource Unit 1000 is designed to host PCle devices. The PRU 1000 supports connections to the PXC with one FIC 1000. A PRU 1000 supports up to four (4) PCle 4.0 slots.

Users can fill the PRU 1000 with PCle form factor devices such as GPUs, FPGAs, SmartNICs, NICs, IPUs, TPUs, and NVME storage cards.

PRU 1000 Advantages

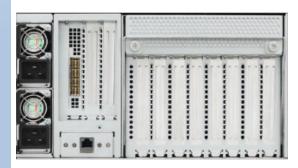
By disaggregating the data center resources via a photonic fabric, a number of architecture design advantages can be realized.

- Heterogeneous Device Support: The PRU 1000 allows users to deploy a mix of device types from various manufacturers and compose machines with these devices.
- Discreet Upgrade Paths: By deploying the data center around pools of resources, devices within the pool can be upgraded independent of the server/CPU complex.
- Better Resource Utilization: Composing machines of resources around workload requirements and using a direct connect photonic fabric results in better resource utilization versus traditional stacked switching architectures.
- Attach/Detach Capability: PRU 1000 enables PCle resources to be hosted and dynamically attached and detached from services via Drut's Fabric Manager (DFM) Software.

Ordering Information

Product: PRU 1000
Code: DRT-HW-PRU-1000
Description: Photonic Resource Chassis







PRU 1000 Specifications

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PCIe Single Width Slots	One (1) PCIe 4.0 x16 FHFL
PCle Double Width Slots	Four (4) GPU PCIe 4.0 x16 double-
	width FHFL (Up to 450W)
FIC 1000 Support	1
Power	Two (2) 1600W PSU Hot Swap
	2100W +2100W redundant PSU
	(Optional)
Operating Temp	0°C ~ 35°C (32°F ~ 95°F)
Dimensions	174(H) x 320(W) x 466(D) mm
Weight	12.75 Kg / 28 Pounds
Fan	Four (4) 120mm x 38mm fans mounted
	to the front bezel of the chassis
Agency Compliance	AS/NZS CISPR32, class A
	EN 55032, class A
	EN 55024
	EN 61000-3-2
	EN 61000-3-3
	FCC Part 15B, class A
	RoHS Directive 2011/65/EU