

iDirect Compute Rack DCR2000



The iDirect network processing solution is tailored for Intuition's network processing functionality. Designed to handle the increasing demands of modern satellite networks, it integrates cutting-edge private cloud technology with a secure, cloud-native virtualization layer. This innovative design ensures seamless network operations, strengthened security, and an adaptable path for future scalability, empowering operators to confidently meet today's connectivity needs while preparing for tomorrow's bandwidth growth. The network processing functions, supported by modular compute and storage resources, are deployed in an advanced, on-premises solution, DCR2000.

Highly Flexible and Scalable

The DCR2000 system can grow alongside organizational demands, accommodating up to 20 compute nodes within a single rack and allowing horizontal scaling through additional interconnected racks. With a pre-cabled 19" rack design for quick setup, operators benefit from streamlined implementation and efficient resource management. Its robust architecture is future-ready, delivering unmatched versatility through its pay-as-you-grow model.

Best-in-Class Performance

The DCR2000 features a high-throughput 10 Gbps Ethernet switching infrastructure and uplink connectivity options of 10/25/100G, ensuring reliable service delivery in even the most demanding environments. Carrier-grade reliability is built into the system, with integrated redundancy to safeguard operations. Enhanced with OpenShift-based security measures, the DCR2000 offers a blend of power, precision, and protection, enabling operators to optimize performance and maintain operational excellence as network requirements evolve.

Markets

Enterprise
SME
Cellular Backhaul
Government / Defense
Offshore and Maritime
Aero
Land Mobility

Main Advantages:

- Highly flexible and scalable architecture
- Advanced security with integrated cloud native virtualization layer based on OpenShift
- Carrier grade reliability with built-in redundancy
- Pay-as-you-grow

Hub Interfaces

Ethernet User data	10 GbE (Optical or RJ45)
Ethernet Management data	1 GbE (RJ45) or 10 GbE (Optical or RJ45)
Out of Band Management	1 GbE (RJ45) or 1 GbE (Optical)
RF Output per satellite network	L-band (950 - 2400 MHz)
RF Input per satellite network	L-band (950 - 2150 MHz)

Hub Architecture

Compute Servers	Up to 20 compute nodes per rack
Network Processing	TOR10, TOR25, OOB switch
Scalable Compute & Storage options	

Mechanical & Environmental

Operating temperature	10° to 30°C / 50° to 95°F
Humidity	10 to 85% relative, non-condensing
Storage temperature	-30° to 60°C / -22° to 140°F

Main Power Supply

Power Supply	380-400 VAC 3PH+N+GND (EU+AUS)
	208 VAC 3PH + GND (US)



DCR2000