Western Digital’s RapidFlex™ C1000 NVMe-oF™ adapter is a half-height/half-length solution which enables NVMe™ over Fabrics (NVMe-oF™) attached storage systems. This high-performance adapter is based on Western Digital’s NVMe-oF Bridge ASIC, and forms a key component for the enablement of the industry’s newest Composable Disaggregated Infrastructures.

This target NVMe-oF adapter represents a unique approach to NVMe-oF bridging, based on extensive levels of hardware acceleration. By removing firmware from the performance path, read and write I/Os flows through the NVMe-oF adapter with minimal latency.

At less than 10W of nominal power consumed, this plug-in adapter enables extremely low-power JBOF solutions which can significantly lower overall power and cooling requirements of today’s scale-out data centers.

The -E option offers a second Ethernet management port through the PCIe connector. This second Ethernet port runs up to 100Mbps and allows management traffic to be supported on an independent network from the main data fabric. This port can be enabled through the addition of a “-E” suffix (see ordering information section).

Contact Western Digital today for more information about integrating this NVMe-oF target solution into a specific JBOF system.

**Specifications**

**Network Interfaces**
- Ethernet 100GbE – Single Port
- Ethernet 50/25GbE – Dual Ports
- HW Link Aggregation
- Static or Dynamic Addressing
- Fiber and Copper Cable Support
- Up to 4 MAC addresses per Port
- One VLAN address per Port
- 4 IPv4 / IPv6 addresses per Port
- 80.3-2012 CL91 – RS-FEC (100G)

**Power**
- 9.3W nominal @ Tj = 25°C
- 15.5W worst-case @ Tj = 110°C
- Power Supply = +5%, Copper Interface
- 200 lfm Airflow at 55°C (sea level)

**Physical Dimensions**
- Length: 129.41 mm
- Height: 68.95 mm

**Miscellaneous Interfaces**
- SPI Flash for Firmware / Logging
- Three PCIe Ports
- 32 GPIO Pins

**Ordering Information**

- Models: KN-ONYX2.0
  - KN-ONYX2.0-E
- Leadtime: 16 weeks
- ECCN: 4A994.j
- HTC: 8471.80.1000
- MOQ: 20 adapters

© 2021 Western Digital Corporation or its affiliates. All rights reserved. Western Digital, the Western Digital logo, and RapidFlex are registered trademarks or trademarks of Western Digital Corporation or its affiliates in the US and/or other countries. The NVMe and NVMe-oF word marks are trademarks of NVM Express, Inc. All other marks are the property of their respective owners. References in this publication to Western Digital products, programs, or services do not imply that they will be made available in all countries. Product specifications provided are sample specifications subject to change and do not constitute a warranty. Actual specifications for unique part numbers may vary. Pictures shown may vary from actual products.