1 to 200 Gb Ethernet

Dell Product Guide for Intel® Ethernet Network Adapters

Introducing the Intel® IPU Adapter E2100



The 200GbE Intel® Infrastructure Processing Unit (Intel® IPU) Adapter E2100 delivers infrastructure acceleration, virtual storage initiator, and enhanced security features for the data center.

Separation and isolation of infrastructure workloads

Increases host CPU applications capacity by removing infrastructure overhead from traditional host-based network and storage infrastructure applications.

Offload virtualized networks

Intel IPU accelerators can process tasks such as NVMe and IPSec in hardware, freeing up the host CPUs for more workload-intensive application tasks.

Replace local disk storage with detached virtualized storage

Intel IPU architecture enables acceleration of NVMe remote disk storage, reducing local stranded capacity.

Why Intel® Ethernet

Intel's extensive product selection, from 1GbE to 200GbE, supports a variety of form factors (PCIe and OCP network adapters, ASIC controllers and SOCs) and media types (BASE-T, Fiber, SFP+, QSFP+, SFP28, QSFP28, QSFP56, KR and XAUI), as well as open platform initiatives like OCP, DPDK, OFED, and ORAN.

The Intel Ethernet portfolio, with its supported open-platform initiatives, offers a wide range of data center solutions and continues to evolve with reliable off-the-shelf components to address any system size or budget.

Compatibility and interoperability

- Extensive conformance testing to IEEE and Ethernet Technology Consortium standards
- Comprehensive operating system and hypervisor support
- Broad network interoperability testing for best-in-class compatibility

Performance assurance

- Validated on all x86 architectures and optimized for Intel® architecture
- Security protocols and management to ensure data integrity
- Scales with CPU cores and technologies

Worldwide product support

- Industry-leading limited lifetime warranty*
- World-class pre- and post-product support
- Adherence to global regulatory, environmental, and market requirements

*Dell warranty supersedes Intel warranty for all Dell product purchases.

Intel Ethernet 800 Series Network Adapters

Improve application efficiency and network performance with innovative and versatile capabilities that optimize high-performance server workloads such as NFV, storage, HPC-AI, and hybrid cloud.

Performance for Cloud Applications

Delivers the bandwidth and increased application throughput required for demanding cloud workloads including edge services, web servers, database applications, caching servers, and storage targets.

Optimizations for Communications Workloads

Provides packet classification and sorting optimizations for high-bandwidth network and communications workloads, including mobile core, 5G RAN, and network appliances.

Product	Speed	Ports, Media Type	Platform	Dell Part Number	Intel MM#
 E810-2CQDA2	100/25/10/1GbE Note: 100Gbps per port for total bandwith of 200Gbps	Dual Port, QSFP28	Gen 16	Y64J4	99CGHM
 E810-CQDA2	100/50/25/10GbE	Dual Port, QSFP28	Gen 14, 15, 16	85F8F (FH) DWNRF (LP) FJ96K (LP) (Cloud HS)	99A3KR 99A3KT 99A454
 E810-XXVDA4	25/10/1GbE	Quad Port, SFP28	Gen 15, 16	VK88G (FH) 2VV2G (Cloud HS)	99A3KW 99AK74
 E810-XXVDA2	25/10/1GbE	Dual Port, SFP28	Gen 15, 16	CD16M (FH) VNF8M (Cloud HS)	999L8L 99AHXK
 E810-XXVDA4T	25/10/1GbE	Quad Port, SFP28	Gen 15, 16	YCDP7 (with GNSS) RXHJG (without GNSS)	99C8P6 99C8P7
 E810-CQDA2T	100/50/25/10GbE	Dual Port, QSFP28	Gen 15, 16	4HR4D (with GNSS) XN7J8 (without GNSS)	99C8PK 99C085

800 Series Network Adapters for OCP 3.0

Product	Speed	Ports, Media Type	Platform	Dell Part Number	Intel MM#
 E810-CQDA2 for OCP 3.0	100/50/25/10/1GbE	Dual port, QFSP28	Gen 15, 16	N0W1X N8PW5 (Cloud HS)	99A3KV 99A0FX
 E810-XXVDA4 for OCP 3.0	25/10GbE	Quad Port, SFP28	Gen 15, 16	R1KTR Y4VV5 (w/MCTP support)	99A3KX 99C472
 E810-XXVDA2 for OCP 3.0	25/10/1GbE	Dual Port, SFP28	Gen 15, 16	61X09 DV72X (Cloud HS) PWH3C (w/MCTP support)	999L8K 99AHXJ 99C482

Intel Ethernet 700 Series Network Adapters

- PCI Express 3.0, 8.0 GT/s, x8 lanes
- iSCSI, NFS, SMB
- Intelligent Offloads
- Optimized for DPDK and Intel Ethernet Flow Director
- On-chip QoS and traffic management, Flexible Port Partitioning, Virtual Machine Device Queues (VMDq), PCI-SIG SR-IOV capable

Product	Speed	Ports, Media Type	Platform	Dell Part Number	Intel MM#
 X710-T4	10/1GbE	Quad Port, 10GBASE-T	Gen 14, 15	K5V44 (FH) 08XJ7 (LP)	951445 951444
 X710-T2L/T4L	10/1GbE/100Mb	Dual Port, 10GBASE-T Quad Port, 10GBASE-T	Gen 15, 16	1WYFT (DP, FH) HD44M (DP, LP) ND4PT (QP, FH) K5DDV (QP, LP)	999CKH 999CKG 999CKF 999CKD
 X710-DA2/DA4	10/1GbE	Dual Port, SFP+ Quad Port, SFP+	Gen 14, 15	J2N46 (DP,FH) C6CHH (DP,LP) D93YX (QP,FH)	99AW6A 99AW69 99AW68
 XXV710-DA2	25/10/1GbE	Dual Port, SFP28	Gen 14, 15, 16	N49FM (FH) GY0MM (LP)	954235 954241
 XL710-QDA2	40/10GbE	Dual Port, QSFP+	Gen 14	KF46X (FH) 8DKFV (LP)	943113 943112

700 Series Network Adapters for OCP

Product	Speed	Ports, Media Type	Platform	Dell Part Number	Intel MM#
 X710-T2L/T4L for OCP 3.0	10/1GbE/100Mb	Dual Port, Quad Port, 10GBASE-T	Gen 15, 16	VMFKR (DP) F6X1R (DP) (w/MCTP support) 50RV4 (QP) XC0M4(QP) (w/MCTP support)	999APZ 999APX 99AL8T 99C480
 X710-DA2/-DA4 for OCP 3.0	10/1GbE	Dual Port, Quad Port, SFP+	Gen 15	YJYK1 (DP) VF81P (QP)	9999NN 9999NR
 X710-DA2 for OCP v2.0 Type 2	10/1GbE	Dual Port, SFP+	Gen 14, 15	T44PH	951449

Gigabit Intel Ethernet Network Adapters

Product	Speed	Ports, Media Type	Platform	Dell Part Number	Intel MM#
 I226-T1	2.5/1GbE	Single Port	Workstation only	KXHR4 (FH) OXDX9 (LP)	99CDFV 99CDFT
 I225-T1	2.5/1GbE	Single Port	Workstation only	JJF4X (FH) 338N7 (LP)	99AKG5 99AKG7
 I210	1GbE	Single Port	Workstation only	VRRH1 (FH) FHNX8 (LP)	933845 938613
 I350-T4	1GbE	Quad Port, 1000BASE-T	Gen 14, 15, 16	Y10X9 (FH) NB8TT (LP)	99AWH4 99AWH5

Gigabit Ethernet Network Adapter for OCP 3.0

Product	Speed	Ports, Media Type	Platform	Dell Part Number	Intel MM#
 I350-T4	1GbE	Quad Port, 10GBASE-T	Gen 15, 16	WW2NX HY4CV (w/MCTP support)	9999NT 99CD6X

RACK NDC Adapters

Product	Speed	Ports, Media Type	Platform	Dell Part Number	Intel MM#
 RACK NDC I350-T4	1GbE	Quad Port, 1000BASE-T	Gen 14	MMW41	99AW67
 RACK NDC X550-T2/I350-T2	10/1GbE	Dual Port, 10GBASE-T Dual Port, 1000BASE-T	Gen 14	CD2VM	951448
 RACK NDC X550-T4	10/1GbE/100Mb	Quad Port, 10GBASE-T	Gen 14	64PJ8	951447
 RACK NDC X710-DA2/I350-T2	10/1GbE	Dual Port, SFP+ Dual Port, 1000BASE-T	Gen 14	6VDPG	935184
 RACK NDC X710-DA4	10/1GbE	Quad Port, SFP+	Gen 14	68M95	934441

Blade Adapters

Product	Speed	Ports, Media Type	Platform	Dell Part Number	Intel MM#
 Server 2P Blade NDC X710 KR2/KR4	10/1GbE	Dual Port, KR Quad Port, KR	Gen 14	DX69G (DP) Y348Y (QP)	938910 932867
 Blade Adapter E810-XXVKR2	25/10GbE	Dual Port, KR	Gen 16	MR0H8	99A9M2
 Blade Adapter XXV710-KR2	25/10/1GbE	Dual Port, KR	Gen 14	H9NTY	954234

Intel IPU Adapter

Product	Speed	Ports, Media Type	Platform	Dell Part Number	Intel MM#
 Intel® IPU Adapter E2100-CCQDA2	200/100/25GbE	Dual Port, QFSP56	Gen 16	YJDYV	99CFX9

Server Acceleration Accessories

Product	Bus Type/Bus Width	Platform	Dell Part Number	Intel MM#
 Intel® vRAN Accelerator ACC100 Adapter	PCIe 3.0 x 16	Gen 16	KH30N (FH) MNTV3 (LP)	99AK3C 99AK4C
 Intel® QuickAssist Adapter 8970*	PCIe 3.0 x 16		RC5TP	999L52
 Intel® QuickAssist Adapter 8960*	PCIe 3.0 x 8		T1FNT	954358

*Available through ESI

Intel® Ethernet Optics

Combine these Intel Ethernet accessories with your Dell Technologies adapters for dependable interoperability and consistent performance across the network

1/10GbE SFP+ Optics

Optics	Dell skus	Intel MM#
Intel® Ethernet SFP+ SR Optics	Tied: 407-BBVK Cust Kit: 407-BBVJ	942697
Intel® Ethernet SFP+ SRX (Extended Temp) Optics	Tied: 407-BCBI Cust Kit: 407-BCBH	959996
Intel® Ethernet SFP+ LR Optics	Tied: 407-BBZV Cust Kit: TBD	952748

10/40GbE QSFP+ Optics

Optics	Dell skus	Intel MM#
Intel® Ethernet QSFP+ Optic SR	Tied: 407-BBZU	952749

10/25GbE SFP28 Optics

Optics	Dell skus	Intel MM#
Intel® Ethernet SFP28 SR Optics	Tied: 407-BCBG Cust Kit: 407-BCBF	958203
Intel® Ethernet SFP28 SRX (Extended Temp) Optics	Tied: 407-BCBJ Cust Kit: 407-BCBK	958204

Behind every great server...Intel® Ethernet innovation

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