

ASBIS[®]

SUCCESS THROUGH FOCUS

СЕТЕВЫЕ АДАПТЕРЫ INTEL

SERVER BDM

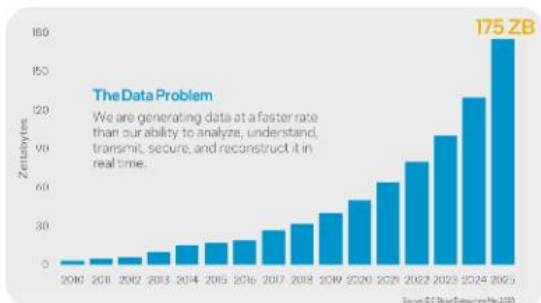
ЛУЩИКОВ ПАВЕЛ

АСТАНА 2024.



ТЕНДЕНЦИИ РЫНКА

Explosion of Data



Cloud Native & Microservices



Evolution of Workloads

Application Centric → Data Centric



Increased Data Analytics & Data Lakes



Rise of Edge Computing



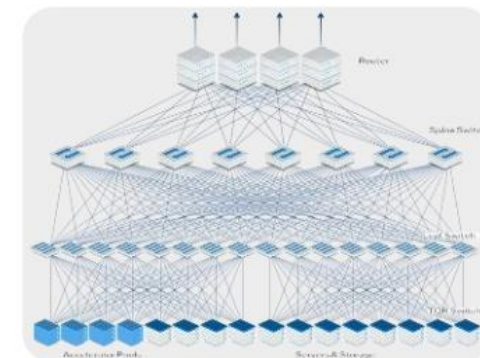
Rapid Adoption of AI



Disaggregated Storage & HCI Architectures

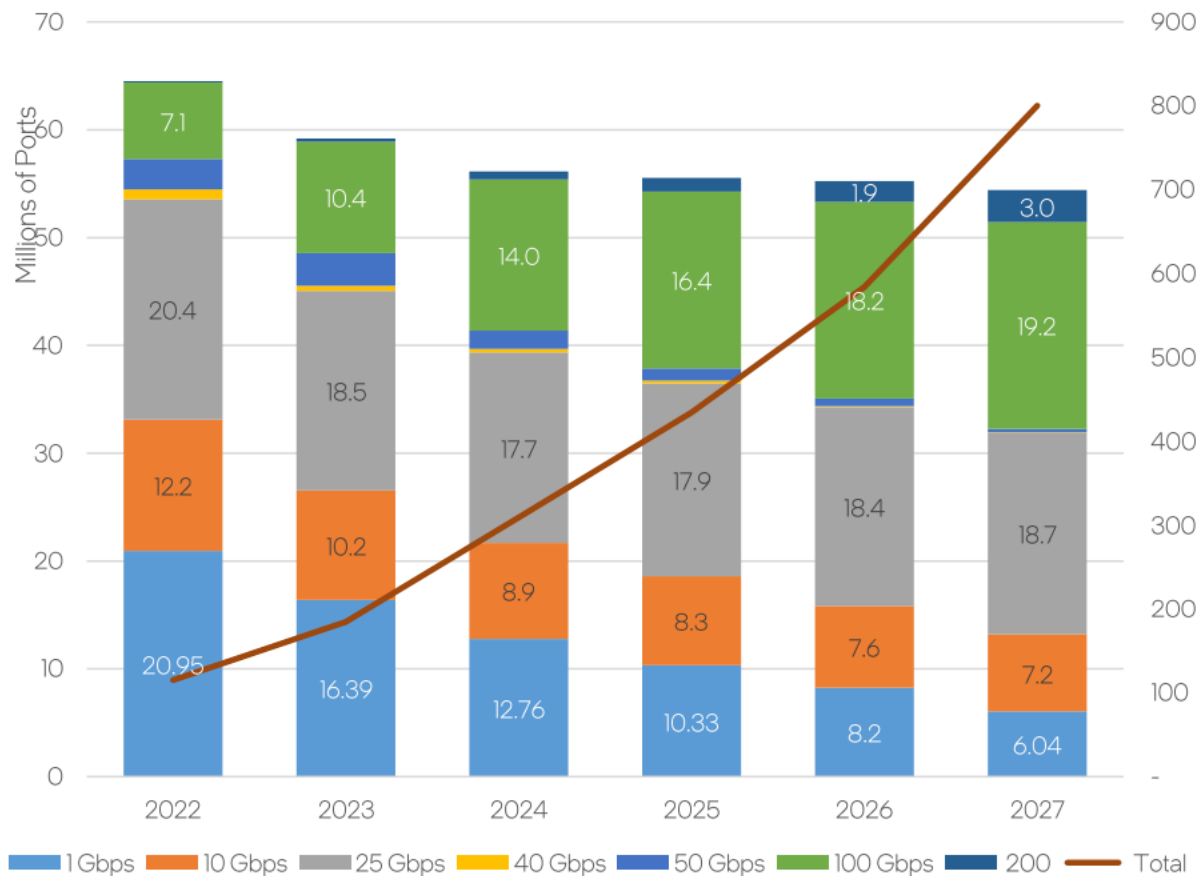


Increase in East / West Traffic

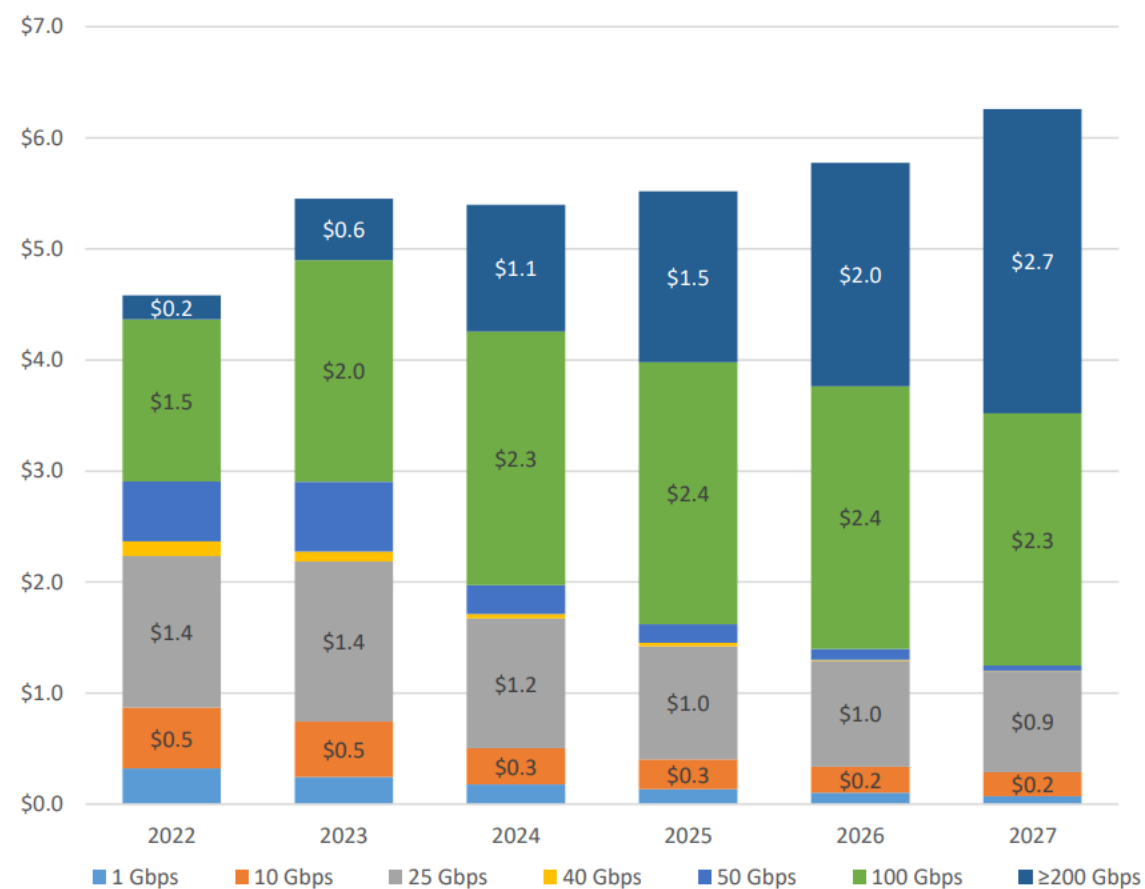


25/100GbE ПЕРСПЕКТИВЫ РОСТА

Worldwide Ethernet Ports - Adapters & Controllers



Worldwide Ethernet Ports - Revenue



ДОРОЖНАЯ КАРТА

Left edge = Appr. PQR	Available	2023	2024
200 GbE			E830 (Connorsville)
100 GbE	Intel® Ethernet Controller E810CAM1/CAM2 (Columbiaville)		
40 GbE	Intel® Ethernet Controller XL710 (Fortville)		
25 GbE	Intel® Ethernet Controller E810XXV (Columbiaville)		
	Intel® Ethernet Controller XXV710 (Fortville)		
10 GbE			E610 (Linkville) T
	Intel® Ethernet Controller X710 (Fortville)		
	Intel® Ethernet Controller X550AT (Sageville),		
	Intel® Ethernet Controller X710-TM4, X710-AT2 (Carlsville)		
5GbE	Intel® Ethernet Controller V710-AT2 (Carlsville)		
2.5 GbE	Intel® Ethernet Controller I225/I226 – MAC+PHY (Foxville) T,R		
1GbE	Intel® Ethernet Controller i350 – MAC+PHY (Powerville)		
	Intel® Ethernet Controller i210AT/IT – MAC+PHY (Springville) T		
	Intel® Ethernet Controller i210IS/CS – MAC + Serdes (Springville)		

Жизненный цикл продукта

T Extended temperature support
R Real Time, available with IEEE* TSN

ETHERNET АДАПТЕРЫ PCIe 1/10G

Single Port Adapters

Dual Port Adapters

Quad Port Adapters

10GBASE-T/NBASE-T
Max: 10Gb

Fox Pond (I225-T1)

1x2.5/1GbE



Intel® Ethernet Network Adapter X710-T2L

2x10/5/2.5/1GbE



Intel® Ethernet Network Adapter X710-T4L

4x10/5/2.5/1GbE



Intel® Ethernet Converged Network Adapter X550-T2

2x10/5/2.5/1GbE



Intel® Ethernet Converged Network Adapter X710-T4

4x10/1GbE



1GBASE-T
Max: 1Gb

Intel® Ethernet Network Adapter I210-T1

1x1GbE



Intel® Ethernet Network Adapter I350-T2

2x1GbE















Intel® Ethernet Network Adapter I350-T4

4x1GbE



ETHERNET АДАПТЕРЫ PCIe

	Single Port Adapters	Dual Port Adapters	Quad Port Adapters
QSFP28 Max: 200Gb		Intel Ethernet Network Adapter E810-2CQDA2 <i>2x100/2x50/8x25/8x10GbE, 200Gbps total bandwidth</i> 	
QSFP28 Max: 100Gb	Intel Ethernet Network Adapter E810-CQDA1 <i>1x100/2x50/4x25/4x10GbE</i> 	Intel Ethernet Network Adapter E810-CQDA2 <i>2x100/2x50/4x25/8x10GbE</i> Intel® Ethernet Network Adapter E810-CQDA2T <i>2x100/2x50/4x25/8x10GbE, enhanced timing precision</i>  	
QSFP+		Intel Ethernet Converged Network Adapter XL710-QDA2 <i>2x40/4x10GbE</i> 	
SFP28 Max: 50Gb	Speed Decoder (Max) I = 1GbE X = 10GbE XXV = 25GbE XL = 40GbE L = 50GbE C = 100GbE CC = 200GbE	Intel Ethernet Network Adapter XXV710-DA2 <i>2x25/10/1GbE</i> 	Intel Ethernet Network Adapter E810-XXVDA4 <i>4x25/10GbE</i> 
		Intel Ethernet Network Adapter E810-XXVDA2 <i>2x25/10GbE</i> 	Intel Ethernet Network Adapter E810-XXVDA4T <i>4x25/10GbE, enhanced timing precision</i> 
		Intel Ethernet Network Adapter XXV710-DA2T <i>2x25/10GbE, enhanced timing precision</i> 	
SFP+		Intel Ethernet Converged Network Adapter X710-DA2 <i>2x10/1GbE</i> 	Intel Ethernet Converged Network Adapter X710-DA4 <i>4x10/1GbE</i> 

ETHERNET АДАПТЕРЫ ДЛЯ OCP

Single Port Adapters

Dual Port Adapters

Quad Port Adapters

	Single Port Adapters	Dual Port Adapters	Quad Port Adapters
QSFP28 Max: 100Gb	Intel® Ethernet Network Adapter E810-CQDA1 for OCP 3.0 <i>1x100/50/25/10GbE, OCP network adapter 3.0</i>  Intel® Ethernet Network Adapter E810-CQDA1 for OCP <i>1x100/50/25/10GbE, OCP 2.0 Type 2</i> 	Intel® Ethernet Network Adapter E810-CQDA2 for OCP 3.0 <i>2x100/2x50/4x25/8x10GbE, OCP network adapter 3.0</i> 	
QSFP+ Max: 40Gb		Intel Ethernet Server Adapter XL710QDA2 for OCP <i>2x40/4x10GbE, OCP 2.0 Type 1</i> 	
SFP28 Max: 50Gb		Intel Ethernet Network Adapter XXV710-DA2 for OCP <i>2x25/10/1GbE, OCP 2.0 Type 1 & 2</i>  Intel® Ethernet Network Adapter E810-XXVDA2 for OCP 3.0 <i>2x25/10GbE, OCP network adapter 3.0</i> 	Meadow Flat (E810-XXVDA4 for OCP 3.0) <i>4x25/10GbE, OCP network adapter 3.0</i> 
SFP+ Max port speed: 10Gb		Intel Ethernet Server Adapter X710-DA2 for OCP <i>2x10/4x1GbE, OCP 2.0 Type 1 & 2</i>  Intel Ethernet Server Adapter X710-DA2 for OCP 3.0 <i>2x10/1GbE, OCP network adapter 3.0</i> 	Intel Ethernet Server Adapter X710-DA4 for OCP 3.0 <i>2x10/1GbE, OCP network adapter 3.0</i> 
10GBASE-T/NBASE-T Max: 10Gb		Intel® Ethernet Network Adapter X710-T2L for OCP 3.0 <i>2x10/5/2.5/1GbE, OCP network adapter 3.0</i> 	Intel® Ethernet Network Adapter X710-T4L for OCP 3.0 <i>4x10/5/2.5/1GbE, OCP network adapter 3.0</i> 
1GBASE-T Max: 1Gb			Intel® Ethernet Network Adapter I710-T4L for OCP 3.0 <i>4x1GbE, OCP network adapter 3.0</i>  Intel® Ethernet Network Adapter I350-T4 for OCP 3.0 <i>4x1GbE, OCP network adapter 3.0</i> 

ЭВОЛЮЦИЯ АРХИТЕКТУРЫ СЕТЕВЫХ АДАПТЕРОВ

Intel Ethernet 700 Series



Intel Ethernet 800 Series



IN DEVELOPMENT

Capability Richness

More
 Less

Security

- Signed & Authenticated FW Protection, FW security Detection and Recovery

Partially Programmable Pipeline

- Table definition modifications with a Dynamic Device Personalization (DDP) Profile Packages

RDMA iWARP

Intel Ethernet Adaptive Virtual Function (Intel Ethernet AVF)

Security

- Hardware Root of Trust, Authenticate on Update/Boot

Precision Clocks Synchronization

- SyncE (external PHY), 1588/PTP

Queue and Steering Hardware Assists

- Application Device Queues (ADQ)

Fully Programmable Pipeline

- Table definition with DDP Packages
- Flow matching acceleration

Converged Ethernet

- RDMA (iWARP & RoCEv2)
- NVMe over Fabric (RDMA, TCP)

Security Advancements

- Attestation, Key Revocation, Anti Rollback, True Random Number Generator

Precision Clocks Synchronization

- SyncE (integrated)
- Precision Time Management, Linux Launch Time

Queue and Steering Hardware Assists

- Application Device Queues (ADQ) v2

Fully Programmable Pipeline

- Supports millions of flows
- Packet modification
- Flow observability (statistics)

10/25/40GbE

25/50/100GbE

25/50/100/200GbE

For more information go to intel.com/ethernet

ТЕХНОЛОГИИ И ПРЕИМУЩЕСТВА

- ◆ Lower Latency
- ◆ Higher Throughput
- ◆ Reduced host CPU Overhead
- ◆ Multiple Form-factors

Application Device Queues (ADQ) 2.0

Technology designed to improve application-specific queuing and steering.

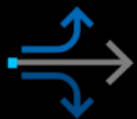
Improves Application Throughput



Reduces Application Latency



Increases Application Predictability



Dynamic Device Personalization (DDP)

Improves Packet Processing Performance

Performing frame classification in the network adapter increases efficiency and reduces CPU overhead in the host

Precision Timing

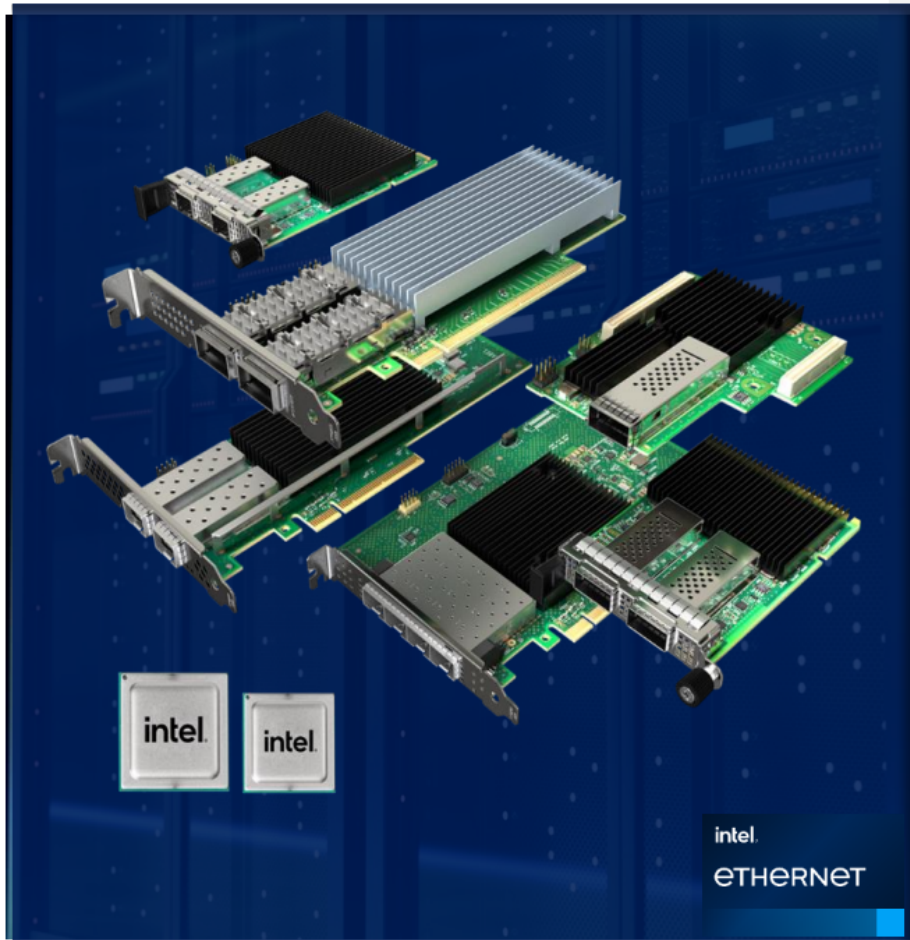


Support for IEEE 1588 Precision Time Protocol v2. Precise clock synchronization for 5G RAN, financial services, and industrial use

RDMA

Intel offers both RoCEv2 and iWARP

RDMA is a host-offload, host-bypass technology enabling direct memory-to-memory data communications between applications over a network.



Ethernet Port Configuration Tool (EPCT)

Deploy the same LOM or adapter across the data center and connect to a wide range of switch speeds and media types

Intel® Ethernet Controller E810-CAM2/CAM1

- 2x1x10/25/50/100Gb
- 1x10/25/50/100Gb
- 2x50Gb
- 4x25Gb
- 4x25Gb
- 2x2x25Gb
- 8x10Gb

Intel® Ethernet Network Adapter E810-CQDA2/CQDA1

One controller that can be programmed to act as many different network adapters to reduce validation and simplify deployments

Оптические трансиверы Intel



SFP+	SFP28	QSFP+	QSFP28
SR/SRX/LR	SR/SRX/LR	SR/LR	SRX/LRX*
10/1GbE _(SR/LR) 10GbE _(SRX)	10/25GbE _(SR) 25GbE _(SRX/LR)	40/10GbE	25/100GbE _(SRX) 100GbE _(LRX)

SR - Short Range 100m

LR – Long Range 10km

ER – Extended Range 40km (Note, must not exceed 2W)

Надежные решения для сетевых адаптеров Intel

Доступность

GbE	Adapter	Family	December	January	February	March	Trend
10	Campbell Flat	X710-T2L OCP 3.0					→
10	Campbell Flat	X710-T4L OCP 3.0					→
10	Campbell Pond	X710-T2L					↑
10	Campbell Pond	X710-T4L					→
10	Cascade Canal	X527DA2/4 OCP					↑
10	Eagle Fountain	X710-DA2					↑
11	Eagle Fountain	X710-DA4					→
10	Ferris Flat	X710-DA2/DA4 OCP 3.0					→
10	Fort Pond	X710-T4L					→
10	Sage Pond	X550-T2					→
10	Taylor Canal	X557-T2 OCP					→
10	Kerby Flat	X710-DA2 OCP					→
25	Aspen Flat	E810-XXVDA2 OCP 3.0					→
25	Clifton Channel	E810-XXVDA2					→
25	Harbor Channel	XXV710-DA2					→
25	Meadow Flat	E810-XXVDA4 OCP 3.0					→
25	Mill Flat	XXV710-DA2 OCP					→
25	Salem Channel	E810-XXVDA4					→
25	Westport Channel	E810-XXVDA4T					→
40	Spirit Falls	XL710-DA1/DA2					→
40	Fisher Flat	XL710-DA1/DA2 OCP					→
100	Chapman Beach	E810-2CQDA2					→
100	Empire Flat	E810-CQDA1/CQDA2 OCP 3.0					↑
100	Logan Beach	E810CQDA2TG1/GG1					→
100	Tacoma Rapids	E810-CQDA1					→
101	Tacoma Rapids	E810-CQDA2					↑
100	Maclaren Summit	VACC					→
10/25/100	SRX Optics	Optics					→
10/25/40	SR Optics	Optics					→
10/40	LR Optics	Optics					↓
25/100	LRX Optics	Optics					→
ACCL	Lewis Hill	IQA89601/IQA89701					→

GbE	Adapter	Family	April	May	June	July	Trend
1	Beaver Lake	I210-T1					→
1	Main Canal	I357-T4 OCP					→
1	Painters Flat	I350-T4 OCP 3.0					↑
1	Shelter Island	EXPI9301					→
1	Stony Lake	I350-T2/T4					↑
2.5	Fox Pond	I225-T1					→
10	Campbell Flat	X710-T2L OCP 3.0					→
10	Campbell Flat	X710-T4L OCP 3.0					↑
10	Campbell Pond	X710-T2L					→
10	Campbell Pond	X710-T4L					↑
10	Cascade Canal	X527DA2/4 OCP					→
10	Eagle Fountain	X710-DA2					→
10	Eagle Fountain	X710-DA4					→
10	Ferris Flat	X710-DA2/DA4 OCP 3.0					↑
10	Fort Pond	X710-T4					→
10	Sage Pond	X550-T2					→
10	Taylor Canal	X557-T2 OCP					→
10	Kerby Flat	X710-DA2 OCP					→
25	Aspen Flat	E810-XXVDA2 OCP 3.0					→
25	Clifton Channel	E810-XXVDA2					→
25	Harbor Channel	XXV710-DA2					→
25	Meadow Flat	E810-XXVDA4 OCP 3.0					→
25	Mill Flat	XXV710-DA2 OCP					→
25	Salem Channel	E810-XXVDA4					→
25	Westport Channel	E810-XXVDA4T					→
40	Spirit Falls	XL710-DA1/DA2					→
40	Fisher Flat	XL710-DA1/DA2 OCP					→
100	Chapman Beach	E810-2CQDA2					→
100	Empire Flat	E810-CQDA1/CQDA2 OCP 3.0					→
100	Logan Beach	E810CQDA2TG1/GG1					→
100	Tacoma Rapids	E810-CQDA1					→
100	Tacoma Rapids	E810-CQDA2					→
100	Maclaren Summit	VACC					→
10/25/100	SRX Optics	Optics					→
10/25/40	SR Optics	Optics					→
10/40	LR Optics	Optics					↑
25/100	LRX Optics	Optics					→
ACCL	Lewis Hill	IQA89601/IQA89701					→

ПРЕИМУЩЕСТВА СЕТЕВЫХ КОНТРОЛЛЕРОВ INTEL

- **40 лет работы над инновациями и стандартами Ethernet**
- **Продукты для всех сегментов рынка**
 - ПК, Сервер, Адаптер, IoT, Датацентр
 - Расширенный температурный диапазон для Embedded/IoT решений
- **Проверенные продукты**
 - Ведущая надежность
 - Чрезвычайно низкий DPM
- **Экосистема**
- **Беспрецедентная поддержка и доступность**

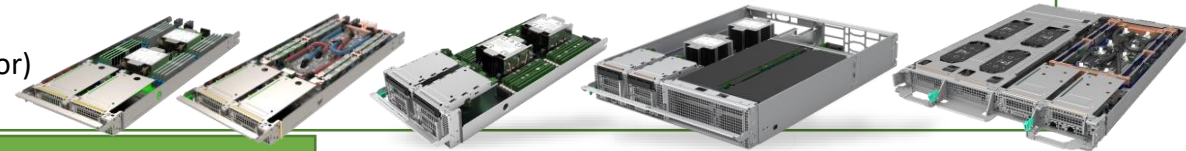
INTEL DSG Server Products by MiTAC

2023	2024	2025
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HPC
2U4N
2U2N
2U1N

[Eagle Stream] D50DNP (Denali Pass), 2 Socket, Shadow-core, Multi-Node, Air-cooled & Liquid-cooled

16 DDR5 DIMMs , 2x M.2, up to 2x U.2 per node
4 module types (Compute, Management, PCIe Accelerator, PVC OAM Accelerator)
2 x16 PCIe 5.0 per 1U node or 4 x16 PCIe 5.0 per 2U node



[Whitely] D50TNP (Tennessee Pass), 2 Socket, Shadow-core, Multi-Node, Air-cooled & Liquid-cooled

24 DDR4 DIMMs (8 Barlow Pass), 2x M.2, up to 2x U.2 per node, 10G LOM
4 module types (Compute, Management, E1.L Storage, PCIe Accelerator)
2 x16 PCIe 4.0 per 1U node or 4 x16 PCIe 4.0 per 2U node



[Eagle Stream] M50FCP (Fox Creek Pass), Air-cooled ,Spread-core, Single Node 1U/2U

32 DDR5 DIMMs , 2x M.2, up to 8x PCIe 5.0 slots, 1 OCP3
24x 2.5" SAS/SATA/NVMe; 12x 3.5" SAS/SATA in 2U
12x 2.5" SAS/SATA/NVMe; 4x 2.5" SAS/SATA/NVMe in 1U



HCI
1U2U

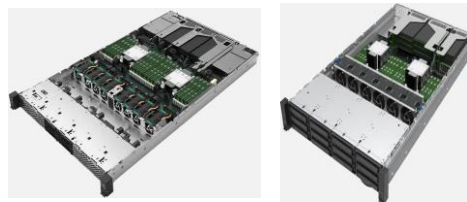
[Whitely] M50CYP (Coyote Pass), 2 Socket, Spread-core, Single Node 1U/2U

32 DDR4 DIMMs (16 Barlow Pass), 2x M.2, up to 8x PCIe 4.0 slots, 1 OCP3
24x 2.5" SAS/SATA/NVMe; 12x 3.5" SAS/SATA in 2U
12x 2.5" SAS/SATA/NVMe in 1U



[Purely] S2600WF (Wolf Pass), 2S, Spread-core, 1U/2U

24 DDR4 DIMMs (12 Apache Pass)
Up to 8x PCIe 3.0 slots, 2x 10G LOM
24x 2.5" SAS/SATA/NVMe; 12x 3.5" SAS/SATA in 2U
8x 2.5" SAS/SATA/NVMe; 4x 2.5" SAS/SATA in 1U



Планируемый срок снятия с продаж: конец 2023

Две платформы для основных потребностей

Intel® Server M50CYP

Featuring 3rd Gen Intel® Xeon® Scalable processors

The right balance of price and performance for the majority of your data center workloads.

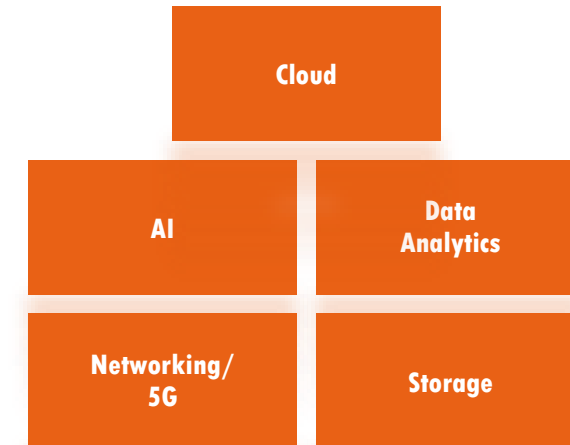
Network Function VMs	Productivity	Security
Web Server	Cloud	Business Intelligence
Email	Collaboration	Ecommerce



Intel® Server M50FCP

Featuring 4/5th Gen Intel® Xeon® Scalable processors

Enhanced I/O and built-in, workload-specific accelerators for your data-intensive workloads.



ПРЕИМУЩЕСТВА СЕРВЕРОВ INTEL

- **Качество**
- **Цена**
- **Гибкое ценообразование**
- **Гарантия**
 - 3 года, возможность расширения до 5 лет
 - Поддержка

ЭВОЛЮЦИЯ СЕТЕВЫХ АДАПТЕРОВ INTEL

Broad Portfolio

- ✓ PCIe Adapters (3.0, 4.0, 5.0)
- ✓ OCP Adapters (2.0, 3.0)

E830 Portfolio
In Development

200Gb/100Gb

100Gb/25Gb

E810 Portfolio Available Now!

25Gb/10Gb

10Gb/1Gb

40Gb

E830 (200GbE QSFP56)
Flexible port configurations for 1x or 2x200GbE to 8x25GbE

E830 (100GbE QSFP28)
Flexible port configurations for 1x100GbE to 4x25GbE on PCIe adapters

E810 (100GbE QSFP28)
Flexible port configurations for 2x100GbE to 8x10GbE

E810 (25GbE SFP28)
2x25GbE and 4x25GbE

E830 (25GbE SFP28)
2x25GbE and 4x25GbE

XXV710 (25GbE SFP28)
Dual-Port 25GbE

X710 (10GbE SFP+)
Quad-Port / Dual-Port

X710-T4L/T2L (10GBASE-T)
Quad-Port / Dual-Port 10GBASE-T

XL710 (40GbE QSFP+)
2x40GbE

X710-T4 (10GBASE-T)
Quad-Port 10GBASE-T

I350-T4 (1000BASE-T)
Quad-Port 1000BASE-T

Advancements in Speeds and Features

Pre-2019 -- Intel® Ethernet Product Naming

Intel® Ethernet naming scheme now implemented across all hardware product types

Base name: Identifies product type

Base name	Description
Intel® Ethernet Connections	IP Block
Intel® Ethernet Controller	MAC, MAC/PHY - Silicon
Intel® Ethernet Desktop Adapter	Desktop
Intel® Ethernet Converged Network Adapter	Server CNA NIC
Intel® Ethernet Network Adapter	Server NIC
Intel® Ethernet Network Connection	PHY Only
Intel® Ethernet Mezzanine Adapter	OEM Mezzanine cards
Intel® Ethernet Express Module	PCIe® Module
Intel® QuickAssist Adapter	QuickAssist adapter

Suffixes: Differentiate between similar product SKUs

Key Feature	Suffix	Interface Silicon	Suffix	Interface Adapter	Suffix	Port Suffix
Alphabetical	A, B, C, ...	KR, SFI	K	Short Range	SR	1
Exception		SerDes, SGMII, RGMII	S	Long Reach	LR	2
Industrial Temp	I	BASE-T	T	BASE-T	T	4
		QSFP	Q	Single Lane	KR	
		XAUI, K4	X	Quad Lane	KX4	
		Multiple - Defined by PME	M	SFP+ / SFP28	DA	
				QSFP+ / QSFP28	QDA	

[Feature] [Interface - Silicon] [Interface - Adapter] [Ports]

[Base name] **[Series & Generation] – [suffix]**

Speed (Max)
I = 1GbE
X = 10GbE
XXV = 25GbE
XL = 40GbE
C = 100GbE

Series	Linux Driver
200	GbE Client e1000
300	GbE Server igb
500	ixgbe
700	i40e
800	ice

Series+Generation	Code Name
340	Barton Hills NICs
350	Powerville
520	Niantic NICs
540	Twinville
550	Sageville / Magnolia Park
710	Fortville
722	Fort Park/Lewisburg
810	Columbiaville
820	Columbia Park

PHY-Only Products
PHY-only products identified by 7, 8, or 9 in last (units) digit, following sequence/series number. First generation PHY: 7, Second Generation: 8, etc
<ul style="list-style-type: none"> PHYs share series & sequence with associated MAC Suffix same as MACs
Example: Barnesville
<ul style="list-style-type: none"> Intel® Ethernet Network Connection I347-AT4

Generation: Generation of Intel Ethernet silicon, reflected in 10s digit

New -- Intel® Ethernet Product Naming 2019+

Intel® Ethernet naming scheme now implemented across all hardware product types

Base name: Identifies product type

Base name	Description
Silicon	
Intel® Ethernet Connections	IP Block
Intel® Ethernet Controller	MAC, MAC/PHY - Silicon
Adapters	
Intel® Ethernet Network Adapter	Ethernet Controller Adapter
Intel® Ethernet Network Connection	PHY Only
Intel® Ethernet Mezzanine Adapter	OEM Mezzanine cards
Intel® QuickAssist Adapter	QuickAssist adapter
Intel® Smart Network Adapter	SmartNIC
Intel® Smart Network Controller	SmartNIC SoCs

Suffixes: Differentiate between similar product SKUs

Max Port Speed	Suffix	Silicon Version	Suffix	Interface Silicon	Suffix	Interface Adapter	Suffix	Port Suffix
400Gb	CD	Alphabetical	A, B, C,...	KR, SFI	K	Short Range	SR	1
200Gb	CC	Exception		SerDes, SGMII, RGMII	S	Long Reach	LR	2
100Gb	C		Industrial Temp	I	BASE-T	T	OR BASE-T	T*
50Gb	L	BASE-T	T	XAUI, K4	X	Single Lane	KR	8
25Gb	XXV			Multiple - Defined by PME	M	Quad Lane	KX4	
10Gb	X					SFP+ / SFP28	DA	
						QSFP+ / QSFP28	QDA	
						QSFP Double Density	QDD	
						Silicon Photonics	SIP	

[Base Name]

[Series]

[Suffix]

Series + Generation	Code Name	PHY-Only Products
E560	Next-generation 25/10Gb Foundational NIC	PHY-only products identified by 7, 8, or 9 in last (units) digit, following sequence/series number First generation PHY: 7, Second Generation: 8, etc <ul style="list-style-type: none"> PHYs share series & sequence with associated MAC Suffix same as MACs Example: Coppervale <ul style="list-style-type: none"> Intel® Ethernet Network Connection X557-AT4
E810	Columbiaville	
E830	Next-generation 800 Series	
E910	Future Generation Foundational NIC	

* 'T' following port suffix indicates enhanced timing product.
 Example: Intel® Ethernet Network Adapter XXV710-DA2T (Edgewater Channel)

Встроенные ускорители

Ускорьте выполнение многих наиболее ценных и требовательных к производительности рабочих нагрузок современности.



**Intel® Deep Learning Boost
with Advanced Matrix
Extensions**

Delivers a significant performance increase for AI training and inferencing workloads versus prior generation.



Intel® Dynamic Load Balancer

Improves performance related to handling network data, including distributed processing, dynamic load balancing, and dynamic network processing reordering.



**Next Generation
Intel® QuickAssist Technology**

Accelerate performance for tasks such as security, private key protection, and data compression/decompression.



**Intel® Data Streaming
Accelerator**

Improves performance of applications reliant on data movement, while offloading data movement operations to free CPU cycles for applications.



**Intel® In-memory Analytics
Accelerator**

Increases query throughput for in-memory database and analytics workloads, while decreasing their memory footprint.

Спасибо!

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