Silicom Ltd.
Connectivity Solutions

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FOR THE FUTURE?

NETWORK INTERFACE CARDS

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BROAD RANGE OF ADD IN CARDS

Standard NICs

Silicom Server Adapters Product Family Includes a Variety of 1G/10G/25G/40G/100G Multi-Port Network Interface Cards

Bypass Server Adapters

Silicom's Ethernet Bypass server adapter supports Normal, Bypass and Disconnect modes

STS® Time Sync NICs

Silicom Time Sync product line (STS®) provides cutting edge combination of PCIe smart NIC with highly accurate and robust timing support.

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Standard NICs

Silicom Server Adapters Product Family Includes a Variaty of 1G/10G/25G/40G/100G Multi-Port Network Interface Cards

Silicom's Network Interface Cards support speeds up to 100Gbps and include innovative and versatile capabilities to optimize workload performance

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

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

Silicom NICs portfolio of server adapters, featured with different port counts and form factors, delivers performance with efficient use of server processors.

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INTEL® FORTVILLE (XL710/XXV710) NIC SERVER ADAPTERS

| Ports	2x10G	2x10G-T	4x10G	4x10G-T	1x40G / 4x10G	2x40G / 4x10G	2x40G / 8x10G	4x40G / 8x10G	2x25G	4x25G	4x25G
Interface	SFP+	RL45	SFP+	RL45	QSFP+	QSFP+	QSFP+	QSFP+	SFP28	SFP28	SFP28
Cabling	DA, SR, LR, SX, LX	Copper	DA, SR, LR, SX, LX	Copper	DA, SR4, LR4, SR, LR	DA, SR4, LR4, SR, LR	DA, SR4, LR4, SR, LR	DA, SR4, LR4, SR, LR	DA, SR, LR, ZS, ZL	DA, SR, LR, ZS, ZL	DA, SR, LR, ZS, ZL
PCIe	x8	x8	x8	x8	x8	x8	x16	x8	x8	Gen 4 x 8	x16 Lane (PCIe bifurcation 2x8)
Form Factor	HHHL	HHHL	HHHL	FHHL	HHHL	HHHL	FHHL	FHHL	HHHL	HH¾L	HHHL
Controller	FTX710-BM2	FTLX710-AT2	FTLX710-BM1	FTLX710-BM1	FTLX710-BM1	FTLX710-BM2	Dual FTLX710-BM1	Dual FTLX710-BM2	FTLXXV710	Dual FTLXXV710	FTLX710-AM2
SRIOV Capable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power, Full load, (typical)	4.80W	8.28W	6.24W	19.8W	6.60W	8.64W	18.6W	32.5W	9.84W	39.4W	22.2W
PN	PE310G2i71-XR	PE310G2i71-T	PE310G4i71L-XR LB: Lower Low profile	PE310G4i71-T	PE340G1Qi71- QX4	PE340G2Qi71- QX4	PE31640G2Qi71- QX4	PE31640G4Qi71- QX4	PE325G2i71-XR	PE425G4i71L-XR	PE31625G4I71L-XR
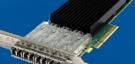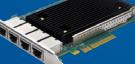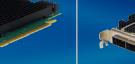
- HHHL – Half Height Half Length
- HH¾L – Half Height Three-Quarter Length
- FHHL – Full Height Half Length
- FH¾L – Full Height Three-Quarter Length

INTEL® E810 NIC SERVER ADAPTERS

Ports	2x25	4x25	2x100 (100G) 4x25 8x10	2x100 (200G) 8x25 8x10	4x25 OCP 3.0	2x25 OCP 3.0
Interface	Dual SFP28	Quad SFP28	Dual QSFP28	Dual QSFP28	Quad SFP28	Dual SFP28
Cabling	DA, SR, LR, ZS, ZL	DA, SR, LR, ZS, ZL	DA, SR4, LR4, ZS4, ZL4	DA, SR4, LR4, ZS4, ZL4	DA, SR, LR, ZS, ZL	DA, SR, LR, ZS, ZL
PCIe	Gen 4 x 8	Gen 4 x 16	Gen 4 x 16	Gen 4 x 16 2 x8 Bifurcation	Gen 4 x 16	Gen 4 x 8
Form Factor	HHHL	HHHL	HHHL	HHHL	OCP 3.0 SFF (4.528" x 2.992")	OCP 3.0 SFF (4.528" x 2.992")
Controller	Intel E810-XXVAM2	Intel E810-CAM1	Intel E810-CAM2	Dual Intel E810-CAM1	Intel E810-CAM1	Intel E810-XXVAM2
SRIOV Capable	Yes	Yes	Yes	Yes	Yes	Yes
Power, Full load, (typical)	9.8W	16.07W	23.040W		16.07W	9.8W
PN	PE425G2i81-XR	PE425G4i81L-XR	P4CG2i81-QX4	P488CG2i81L-QX4	O3425G4i81-XR	O325G2i81-XR

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Bypass Server Adapters

Silicom's Ethernet Bypass server adapter supports Normal, Bypass and Disconnect modes

Silicom's Bypass server adapters can Bypass or disconnect Ethernet ports on a host system failure, power off, or upon software request

Silicom's Bypass server adapter are targeted to inline network system that maintains network connectivity when system fails.

Silicom's Bypass server adapters includes an on board WDT (Watch Dog Timer) controller. The adapter's software drivers, WDT controller and the Bypass circuitry provide an interface that control and manage the mode of the adapter.

Silicom's Bypass Server Adapters are the ideal solution for implementing multiple network segments, mission-critical high-powered networking applications and environments within high performance servers.

BYPASS SERVER ADAPTERS

Ports	2x1G	2x1G	4x1G	4x1G	4x1G	6x1G	2x10G	2x10G	4x10G	4x10G	2x40G	2x40G	2x100
Interface	Copper	Fiber	Copper	Fiber	Copper	Copper	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber	Fiber
Cabling	UTP Copper	SX, LX	UTP Copper	SX, LX	UTP Copper	UTP Copper	SR, LR, SRD, LRD, SR5	SR, LR	SR, LR, SRD, LRD, SR5	SR, LR, SRD, LRD,	QS41, QS43, QL4	QS41, QS43, QL4	ZS4, ZL4
PCIe	x4 Lane	X4 Lane	X4 Lane	X4 Lane	X4 Lane	X8 Lane / Gen2 5GTps	X8 Lane	X8 Lane	X8 Lane	X8 Lane	X8 Lane	X8 Lane	X16 Lane
Controller	intel i350AM2	Intel i350AM2	Intel i350AM4	Intel i350AM4	Intel i350AM4	Intel i350AM4 Intel i350AM2	Intel 82599ES	Intel XL710	Intel 82599ES	Intel XL710	Intel XL710	Intel XL710	Intel E810
Form Factor	HHHL	HHHL	FHHL	FHHL	HHHL	FHHL	HHHL	FHHL	FH¾L	FHHL	FHHL	HH¾L	FHHL
SRIOV Capable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power, Full load, (typical)	4.56W	3.48W	4.68W	4.8W	4.68W	10.44W	6.6 W	5.5W	17.64W	6.24W	8.16W	8.16W	23.040W
PN	PE2G2BPI35A	PE2G2BPFI35	PE2G4BPI35A	PE2G4BPFI35A	PE2G4BPI35LA	PE2G6BPI35	PE210G2BPI9	PE310G2BPI71	PE310G4BPI9	PE310G4BPI71	PE340G2BPI71	PE340G2BPI71L	P4CG2BPi81
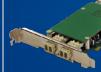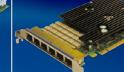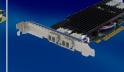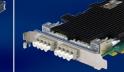
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STS® TIME SYNC NIC

Silicom Time Sync product line (STS®) provides cutting edge combination of PCIe smart NIC with highly accurate and robust timing support.

Silicom's virtualized software architecture fits to varies market segments including generic backhaul and fronthaul, data centers, HFT (High Frequency Trading) and industrial automation.

STS® supports IEEE 1588 (PTP) standard compliance Grand master (GM), Boundary Clock (BC), Slave and G.8275.1, G.8275.2 Telecom profiles.

Silicom incorporates best in class PTP stack and servo in its products.

By building Silicom timing software package on top of it, adding advanced GNSS, SyncE and PTP support, Silicom delivers carrier grade timing products.
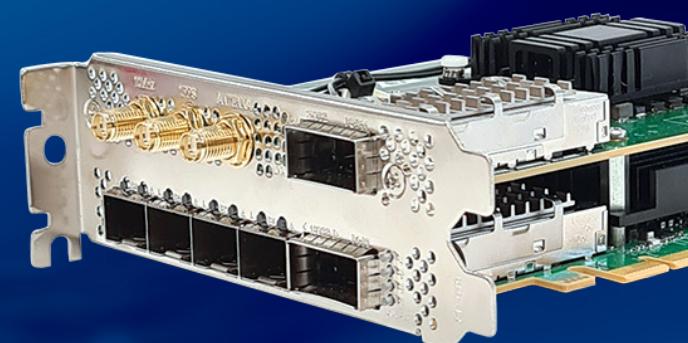
STS® TIME SYNC NIC

Ports	STS1	STS2	STS3	STS3A	STS4
Interface	4x 25G/10G	8x 10G/1G	8 x25G/10G	2x 100G	4 x25GbE + 8 x1/10GbE
Cabling	XR, ZS, F5, L5	XR, SR, F5	XR, SR, F5, L5		XR, ZS
PCIe	4.0 x16	4.0 x16(x8)	4.0 x16(x8, x8 – bifurcated)	4.0 x16(x8, x8 – bifurcated)	4.0 x16(x8, x8 – bifurcated)
Controller	E810-CAM1	E810-CAM2	2x E810-CAM1	2x E810-CAM1	1x E810-CAM1 1x E810-CAM2
Form Factor	HHHL	FHHL	FHHL	FHHL	FHHL (Dual Slot)
SRIOV Capable	Yes	Yes	Yes	Yes	Yes
GNSS	No	Yes	Yes	Yes	Yes
1588, SyncE	Yes	Yes	Yes	Yes	Yes
Hold Over @1.5uSec - Minimum	1 Hours	4 Hours	4 Hours	4 Hours	4 Hours
T-BC	Yes	Yes	Yes	Yes	Yes
T-GM	Yes	Yes	Yes	Yes	Yes
PN	PE425G4TSI81L-XR	P410G8TS81-XR	P425G8TS81-XR	P4CG2TS81-XR	P425G410G8TS81-XR

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