

Data Sheet FUJITSU DynamicLoM for PRIMERGY Server

1Gbit/10Gbit LAN-on-Motherboard solution with iWARP RDMA functionality

Servers are usually provided with network adapters aligned to the current infrastructure, offer less flexibility and scalability opportunities for future requirements. The Fujitsu DynamicLoM technology delivers a perfect solution against these limitation barriers. Through seamless configuration and integration in existing infrastructures, the solution represents the direct opposite to inflexible LAN-onmotherboard architectures.

DynamicLoM for PRIMERGY Server

Powered by the Intel Controller and Intel OCP V3 card, Fujitsu DynamicLoM offers Intel's Ethernet network adapter technology including excellent reliability for enterprise and scale-out data centers. Integrated Intel® Ethernet with scalable iWARP RDMA: Provides up to four 10 Gbps high-speed Ethernet ports for high data throughput and low-latency workloads. Ideal for software-defined storage solutions, and virtual machine migrations. Integrated in the Fujitsu Server PRIMERGY M6 generation server systems chipset. Autonegotiate 10G/1G is supported with DynamicLoM, however DynamicLoM does not support 100BASE-T at all. Fujitsu DynamicLoM offers several features including:

Standards Based Virtualization: SR-IOV: 4 Physical Functions and 128 Virtual Functions. EVB/802.1Qbg. VEB (Virtual Ethernet Bridge); Broad Operating System Enablement.

Shared LAN:

Multiplexed management LAN is possible with any of Fujitsu's DynamicLoM options; Network infrastructure ecosystem savings where desired. No need to use the dedicated, provided on system board 1000BASE-T RJ45 management port for the iRMC; iRMC traffic can be shared with Ethernet traffic on any DynamicLoM port let it be SFP+10GbE, 10G/1GBASE-T or 1000BASE-T RJ45.

Main Features

Scalable performance

Powered by the Intel Controller and Intel OCP V3 card for Fujitsu DynamicLoM; Consolidation of multiple 1GbE and 10GbE adapters, including iWARP RDMA

Flexible networking

■ Based on Intel's latest 10GbE solution; Multiple-speed 1G/10G

Efficient networking

■ Remote Direct Memory Access; iWARP

Connectivity

■ Flexible Filters ATR, Flow Director and NVGRE, VXLAN, GENEVE

Benefits

- Perfect space saving efficiency without PCIe slot occupancy and field-proven technology; Reduced replacement, energy and management costs at less complexity leveraging OCP V3 form factor mezzanine cards
- Optimized for networking capability in Cloud, Comms, and Storage;
 Single networking driver on Intel platforms
- Routable and scalable RDMA ideal for large segmented networks in private and public clouds
- Abstract the network for cloud flexibility; Enhanced programmability and application affinity

Technical details

Technical details							
Controller Silicon	Intel C624 Chipset	: LBG-4					
Controller type	· · · · · · · · · · · · · · · · · · ·	Interface modul for Dynamic LoM					
Number of ports	2	2					
·	4						
Number of Connectors	4						
Number of external ports	4						
Data transfer rate(s)	10 Gbit/s	10 Gbit/s					
	1 Gbit/s						
Auto Negotiation support	Yes						
Interrupt Levels	MSI-X	MSI-X					
WoL	Yes	Yes					
WoL comment	with 1Gb interface	with 1Gb interface cards on all port, with 10Gb interface cards on port 0					
LEDs	2 LED per port LED1: Steady Gree		activity				
Violending to a		OG speed; Amber: 1G speed					
Virtualization	Overlay Network \	ot IO Virtualization) /irtualization (NVGRE & VXLAN) rk on 10GbE ports only					
Teaming	Teaming function:	Teaming functions are provided by the Operating System					
Remote boot support	PXE 2.1 iSCSI						
Remote boot support notes		iSCSI Boot: Please submit a Request for Special Release in order to get support Windows Server 2016 on Fujitsu Server System PRIMEQUEST only					
Additional features		iWARP RDMA. This feature works on 10GbE ports only.					
Offloading	Stateless TCP						
		abrics (NVGRE, VXLAN, GENEVE)					
Standards	Ethernet:	Ethernet: - IEEE 802.3-2008 10Gb/s Ethernet ports - IEEE 802.1Q virtual LANs (VLAN)					
		- IEEE 802.3x Flow control with Pause frames					
	- IEEE 802.3ad Link Aggregation / LACP						
		- IEEE 802.1AB Link Layer Discovery Protocol (LLDP)					
		- IEEE 802.1Qbg Edge Vitual Bridging					
		DCE/CEE Support:					
		- IEEE 802.1Qaz Enhanced Transmission Selection (ETS) Data Center Bridging Capability Exchange (DCBX)					
	- IEEE 802.1Qbb Priority-based Flow Control (PFC)						
Technology	Intel C620 series C	hipset Platform Controller					
Sorting / Sequence	Order code	Number of ports	Port types	Speed			
3	S26361-F3953-E401	4	RJ45	1 Gbit/s			
4	S26361-F3953-L401	4	RJ45	1 Gbit/s			
5	S26361-F5651-E530	4	RJ45	1 Gbit/s			
6	S26361-F5651-L530	4	RJ45	1 Gbit/s			
10	S26361-F3953-E210	2	RJ45	1 Gbit/s; 10 Gbit/s			
11	S26361-F3953-L210	2	RJ45	1 Gbit/s; 10 Gbit/s			
12	S26361-F5651-E540	2	RJ45	1 Gbit/s; 10 Gbit/s			
13	S26361-F5651-L540	2	RJ45	1 Gbit/s; 10 Gbit/s			
21	S26361-F3953-L211	2	SFP+	1 Gbit/s; 10 Gbit/s			
22	S26361-F3953-E411	4	SFP+	1 Gbit/s; 10 Gbit/s			
22	S26361-F5651-E510	2	SFP+	1 Gbit/s; 10 Gbit/s			
23	S26361-F3953-L411	4	SFP+	1 Gbit/s; 10 Gbit/s			
23	S26361-F5651-L510	2	SFP+	1 Gbit/s; 10 Gbit/s			
	320301 1 303 1-L3 10	<u> </u>	J1 1 T	ו שטוניז, וט שטוניז			

Page 2 / 4 www.fujitsu.com/primergy

Sorting / Sequence	Order code	Number of ports	Port types	Speed		
24	S26361-F5651-E550	4	SFP+	1 Gbit/s; 10 Gbit/s		
25	S26361-F5651-L550	4	SFP+	1 Gbit/s; 10 Gbit/s		
DVI						
LAN / Ethernet (RJ-45)	S26361-F3953-E401 PLAN E S26361-F3953-L401 PLAN E S26361-F3953-E210 PLAN E	Up to 4X 1GBASE-T or 2X 10GBASE-T ports, select from S26361-F3953-E401 PLAN EM 4X 1GBASE-T Intel I357-T4 OCP, or S26361-F3953-L401 PLAN EM 4X 1GBASE-T Intel I357-T4 OCP, or S26361-F3953-E210 PLAN EM 2X 10GBASE-T Intel X557-T2 OCP, or S26361-F3953-L210 PLAN EM 2X 10GBASE-T Intel X557-T2 OCP.				
Supported Interface Modul	es / Cables					
Order code	Application	Type / mode	Сог	nnector / cable Length		
S26361-F3986-E3	Ethernet 10 Gbit/s	SFP+ / MMF (SWL)	LC-	style / up to 400m		
S26361-F3986-L3	Ethernet 10 Gbit/s	SFP+ / MMF (SWL)	LC-	style / up to 400m		
S26361-F3986-E4	Ethernet 10 Gbit/s	SFP+ / SMF (LWL)	LC-	style / up to 10km		
S26361-F3986-L4	Ethernet 10 Gbit/s	SFP+/ SMF (LWL)	LC-	style / up to 10Km		
S26361-F3986-E5	Ethernet 10 Gbit/s; 1 Gbit/s	SFP+/ MMF (SWL)	LC-	style / up to 400m		
S26361-F3986-L5	Ethernet 10 Gbit/s; 1 Gbit/s	SFP+/ MMF (SWL)	LC-	style / up to 400m		
S26361-F3986-E6	Ethernet 10 Gbit/s; 1 Gbit/s	SFP+ / SMF (LWL)	LC-	style / up to 10km		
S26361-F3986-L6	Ethernet 10 Gbit/s; 1 Gbit/s	SFP+ / SMF (LWL)	LC-	style / up to 10km		
Interface Module notes	Up to 4X SFP+ Cages. Produ Intel 10G/1G dual-line-rate of between SR and LR. 10G DAC, AOC, Twinax cable	or Finisar 10G single-lir		SFP+ modules are available. Choose		
Description optional cable	MMF (S26361-F3986-E3, S26 - OM1 (Multi Mode Fiber 6: - OM2 (Multi Mode Fiber 50: - OM3 (Multi Mode Fiber 50: - OM4 (Multi Mode Fiber 50: 10G/1G Intel transceiver mo SMF (S26361-F3986-E4, S26: - OS1 (Single Mode Fiber 9: 10GBASE-T: - 100m on Cat 6A or Cat 7: - 55m on Cat 6 (compliant:	- 100m on Cat 6A or Cat 7 - 55m on Cat 6 (compliant to TSB-155)				
Environment						
Power consumption	PLAN EM 2X 10GBASE-T Int PLAN EM 2X 10GbE SFP+ In DAC cables	PLAN EM 4X 10GbE SFP+ Intel X527-DA4 OCP max. 8.3 W, plus the actual power consumption of SFP+ modules or				
Temperature (operating)	0 - 55 °C					
Storage temperature	-40 - 70 °C					
Compliance						
Compliance notes	According to the correspon	ding system				
Compliance link	https://sp.ts.fujitsu.com/site					

Page 3 / 4 www.fujitsu.com/primergy

More information

Fujitsu products, solutions & services

In addition to Fujitsu with DynamicLoM for PRIMERGY Server, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products www.fujitsu.com/global/products/ computing/

Software www.fujitsu.com/software/

More information

Learn more about Fujitsu DynamicLoM for PRIMERGY Server, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website. www.fujitsu.com/primergy

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT

Please find further information at http://www.fujitsu.com/global/about/environment



Copyrights

All rights reserved, including intellectual property rights. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see https://www.fujitsu.com/global/about/resources/terms/Copyright 2024 Fujitsu LIMITED

Disclaimer

Please note that the data sheet reflects the technical specification with the maximum selection of components for the named system and not the detailed scope of delivery. The scope of delivery is defined by the selection of components at the time of ordering. The product was developed for normal business use.

Technical data is subject to modification and delivery subject to availability. Any liability that the data and illustrations are complete, actual or correct is excluded. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner.

Contact

Fujitsu Limited Website: www.fujitsu.com/primergy 2024-04-06 WW-EN All rights reserved, including intellectual property rights. Designations may be trademarks and/or copyrights of the respective owner, the use of which by third parties for their own purposes may infringe the rights of such owner. For further information see https://www.fujitsu.com/global/about/resources/terms/
Copyright 2024 Fujitsu LIMITED