IssueDecember 2014PublisherMainboard OEM SalesContentD323x-S GS3

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Inform ECN Overview D323x-S Industrial Mainboards

ECN-No. SBOEM-D323x-181214

Reason for ECN: - Updated LAN Firmware for second LAN Controller i210 (D3231-S / D3236-S)

- Improved circuitry for Pericom PCI Bridge

See following pages for details!

Current Part No. / Revision	New Part No. / Revision
D3231-S11 / GS2	D3231-S11 / GS3
D3235-S13 / GS2	D3235-S13 / GS3
D3236-S13 / GS2	D3236-S13 / GS3

Shipping details: Shipment of the new HW revision starts from February 2015

Released Operating Systems:

Mainboard Version	Win XP32/64	Win Vista	Win 7-32	Win 7-64	Win 8	Win 8.1-32	Win 8.1-64	Windows Server 2008 R2 (64)	Windows Server 2012 R2 (64)
D3231-S			Х	Х			Х	1)	1)
D3235-S			Х	Х			Х	Х	Х
D3236-S			Х	Х			Х	X	Х

¹⁾ Windows Server OS not tested and released on D3231-S, but due to compatibility to D3236-S no issues expected!

Intel highly recommends to use the latest released drivers when installing the "Haswell Refresh" processors.

These updated drivers are compatible with the previous "Haswell" processor series!

<a href="ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Products/Mainboards/Industrial&ExtendedLifetime/D323x-S/Drivers_D32x-S/Drivers_D32x-S/Drivers_D32x-S/Drivers_D32x-S/Drivers_D32x-S/Drivers_D32x-S/Drivers_D32x-S/Drivers_D32x-S/Dr

Issue December 2014 Mainboard OEM Sales Publisher

Content D323x-S GS3

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Industrial Mainboards D3231-S / D3235-S:

Mainboard	Version	Features	Reason for ECN	ECN Date	
	D3231-S11 GS1		Initial Launch	10/2013	
	D3231-S11 GS2 D3231-S11 GS3	iQ87 μΑΤΧ	Provisions to enable support for "Haswell Refresh" processors:		
D3231-S			- Update BIOS to R1.18.0 ¹⁾		
			- Update Management Engine Firmware (Intel ME) from version 9.0.x.x. to version 9.1.x.x ²⁾		
			Minor hardware adjustments:	04/2014	
			- Adjust 3 resistors of the onboard core voltage regulator to improve the margin during processor load steps		
			- Adjust one resistor (Reset line of PCle x16) in order to improve the acceptance of non-compliant PCle devcies		
			- Improved LAN firmware (V0.83) for i210 LAN controller. ³⁾ - Improved circuitry for Pericom PCI Bridge (Supply voltage adjusted; prevents possible initialization issue @ very low operating temperature) - BIOS ≥ R1.24.0 recommended	12/2014	
	D3235-S13 GS1		Initial Launch	12/2013	
	D3235-S13 GS2	iH81 ATX	See D3231-S11 GS2	04/2014	
D3235-S	D3235-S13 GS3		- Improved circuitry for Pericom PCI Bridge (Supply voltage adjusted; prevents possible initialization issue @ very low operating temperature) - BIOS ≥ R1.24.0 recommended	12/2014	

- Note: BIOS downgrade to any version < R1.18.0 is NOT possible! 1)
- Update of the ME firmware is NOT possible during standard BIOS update from any previous version to R1.18.0. Mainboard D323x-S GS2 shipped ex factory include the updated BIOS ≥ R1.18.0 and the updated ME firmware version 9.1.x.x

In order to upgrade BIOS and ME firmware of D323x-S **GS1** mainboards, please follow these steps:

- Make sure to have no Hawell Resfresh processor installed
- Update BIOS to R1.18.0 first
- Install Service Release BIOS R1.18.0.SR1 (ME firmware will be updated to version 9.1.x.x) ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Products/Mainboards/Industrial&ExtendedLifetime/D323x-S/BIOS_D323x-S/ Note: BIOS update may take some while before indicating any progress – just be patient!
- Haswell Resfresh processor can be installed now
- $Possible\ sporadic\ issue\ with\ previous\ LAN\ firmware:$

Second LAN not found (LAN not visible in PCI configuration space; LAN not visible in Windows device manager).

Updated firmware prevents LAN-internal PLLs from not starting correctly.

Further change: Setting for "Serial Number Capability" changed to disabled.

Result: When swapping the mainboard, windows does not detect a new LAN connection → Previous LAN settings like IP are kept. Note: For the first LAN controller (i217) "Serial Number Capability" was already set to *disabled*.

Issue December 2014
Publisher Mainboard OEM Sales

Content D323x-S GS3

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Industrial Mainboards D3236-S:

Mainboard	Version	Features	Reason for ECN	ECN Date
	D3236-S13 GS1		Initial Launch	10/2013
D3236-S		iQ87 ATX	Provisions to enable support for "Haswell Refresh" processors:	
			- Update BIOS to R1.18.0 ¹⁾	
			- Update Management Engine Firmware (Intel ME) from version 9.0.x.x. to version 9.1.x.x	04/2014
	D3236-S13 GS2		Minor hardware adjustments:	
			- Adjust 3 resistors of the onboard core voltage regulator to improve the margin during processor load steps	
			- Adjust one resistor (Reset line of PCle x16) in order to improve the acceptance of non-compliant PCle devcies	
	D3236-S13 GS3		- Improved LAN firmware (V0.83) for i210 LAN controller. ³⁾ - Improved circuitry for Pericom PCI Bridge (Supply voltage adjusted; prevents possible initialization issue @ very low operating temperature) - BIOS ≥ R1.24.0 recommended	12/2014

- 1) Note: BIOS downgrade to any version < R1.18.0 is NOT possible!
- 2) Update of the ME firmware is NOT possible during standard BIOS update from any previous version to R1.18.0. Mainboard D323x-S **GS2** shipped ex factory include the updated BIOS ≥ R1.18.0 and the updated ME firmware version 9.1.x.x

In order to upgrade BIOS and ME firmware of D323x-S **GS1** mainboards, please follow these steps:

- Make sure to have no Hawell Resfresh processor installed
- Update BIOS to **R1.18.0** first
- Install Service Release BIOS R1.18.0.SR1 (ME firmware will be updated to version 9.1.x.x)
 ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Products/Mainboards/Industrial&ExtendedLifetime/D323x-S/BIOS_D323x-S/
 Note: BIOS update may take some while before indicating any progress just be patient!
- Haswell Resfresh processor can be installed now
- 3) Possible sporadic issue with previous LAN firmware:

Second LAN not found (LAN not visible in PCI configuration space; LAN not visible in Windows device manager).

Updated firmware prevents LAN-internal PLLs from not starting correctly.

Further change: Setting for "Serial Number Capability" changed to disabled.

Result: When swapping the mainboard, windows does not detect a new LAN connection → Previous LAN settings like IP are kept.

Note: For the first LAN controller (i217) "Serial Number Capability" was already set to disabled.

Date	Revision Overview
12/2014	ECN D3231-S11 / D3235-S13 / D3236-S13 GS2 → GS3
04/2014	ECN D3231-S11 / D3235-S13 / D3236-S13 GS1 → GS2

Published by department

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OEM FTP

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http://www.fujitsu.com/fts/products/computing/pc/accessories/mainboards/

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