FUJITSU

Inform
ECN Overview
D323x-S
Industrial Mainboards

ECN-No. SBOEM-D323x-230414

Reason for ECN: - Updated BIOS and ME-Firmware for support of "Haswell Refresh"
                       processor series
                     - Minor change of 4 resistors
                       See next page for details!

Current Part No. / Revision	New Part No. / Revision
D3231-S11 / **GS1**	D3231-S11 / **GS2**
D3235-S13 / **GS1**	D3235-S13 / **GS2**
D3236-S13 / **GS1**	D3236-S13 / **GS2**

Shipping details: Production of the new HW revision starts from April 2014

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	---		X	X	---	---	X	--- [1]	--- [1]
D3235-S	---		X	X	---	---	X	X	X
D3236-S	---	---	X	X	---	---	X	X	X

     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!
ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Products/Mainboards/Industrial&ExtendedLifetime/D323x-S/Drivers_D323x-S/

Industrial Mainboards D323x-S:

Mainboard	Version	Features	Reason for ECN	ECN Date
D3231-S	D3231-S11 **GS1**	iQ87 µATX	Initial Launch	10/2013
	D3231-S11 **GS2**		**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 [2] **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 PCIe x16) in order to improve the acceptance of non-compliant PCIe devcies	04/2014
D3235-S	D3235-S13 **GS1**	iH81 ATX	Initial Launch	12/2013
	D3235-S13 **GS2**		See D3231-S11 GS2	04/2014
D3236-S	D3236-S13 **GS1**	iQ87 ATX	Initial Launch	12/2013
	D3236-S13 **GS2**		See D3231-S11 GS2	04/2014

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

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