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TQ-Embedded TQMxE40S	3
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TQ-Embedded TQMxE40S

pic:



pn:

TQMxE40S

formfactor:

SMARC

manufacturer:

TQ-Embedded

cpu:

Intel Atom® x6000 series

Elkhart Lake

emmc:

256 GB

ram:

16 GB LPDDR4x

eprom:

32kbit

temprange:

-40...+85 °C

edp:

1 (or dsi\lvds 2ch)

dp:

2 (or 1 hdmi)

hdmi:

1 (or dp)

lvd:

1 2ch(or dsi\edp)

ethernet:

2

dsi:

1 (or edp\lvds 2ch)

usb2:

4

usb3:

2

can:

2

uart:

4 (2 full)

spi:

1 + 1 espi

pcie:

4 gen 3 (1x4, 2x2, 4x1)

i2:

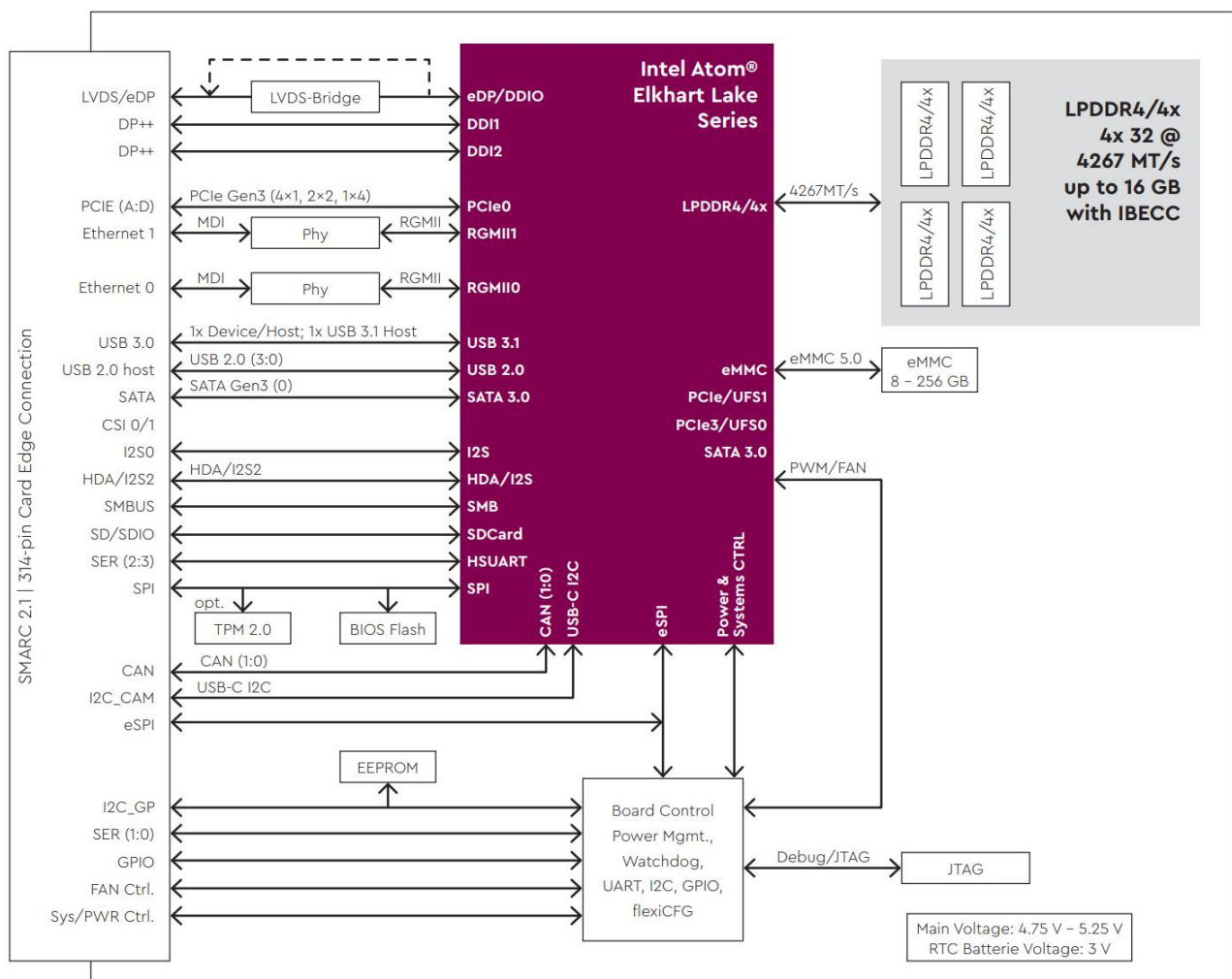
2

sata:

1
 sdio:
 1
 i2c:
 1
 smbu:
 1
 gpio:
 14
 dimension:
 82x50
 datasheet:
[link](#)
 struct:

 page:
[page](#)

BLOCK DIAGRAM TQMxE40S



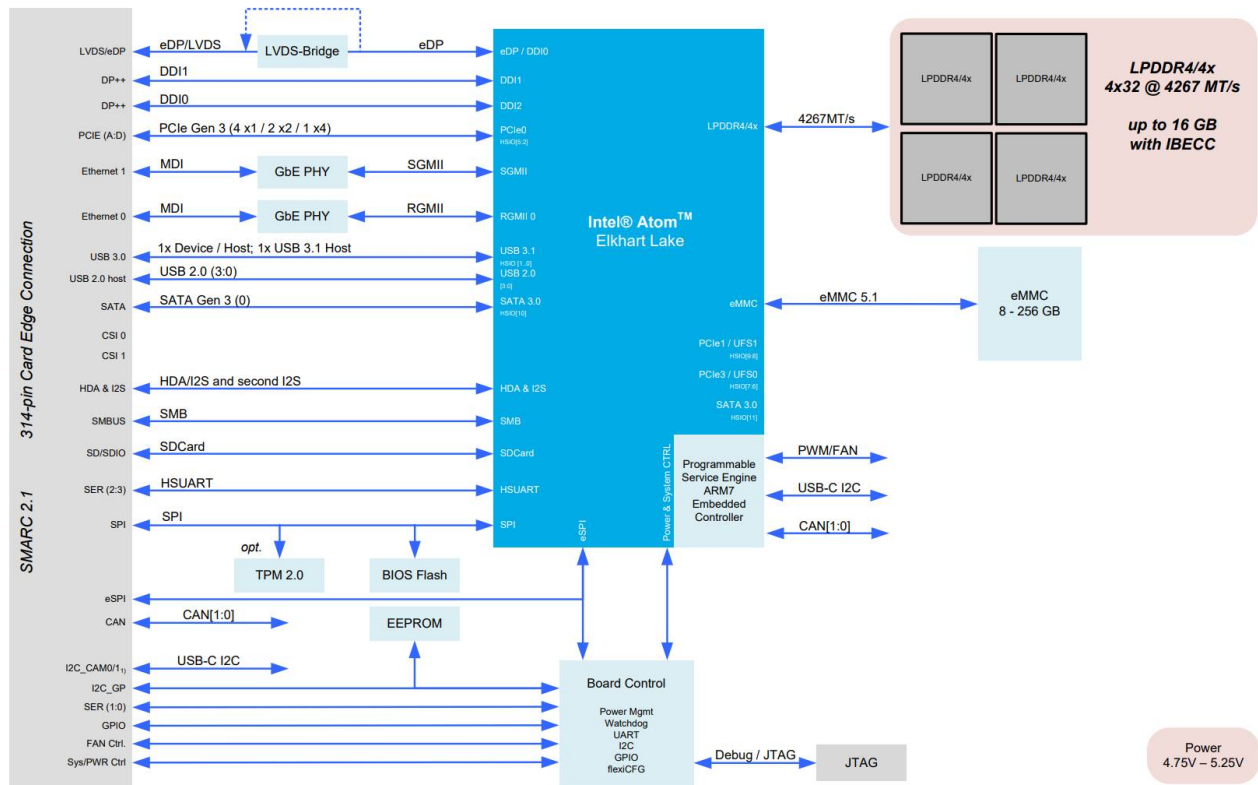


Figure 1: Block Diagram TQMxE40S

TQMxE40S-AA	Intel Atom® x6425RE	16 GB	LPDDR4x	8 GB eMMC	eDP		-40°C...+85°C
TQMxE40S-AB	Intel Atom® x6414RE	8 GB	LPDDR4x	32 GB eMMC	LVDS	TPM 2.0	-40°C...+85°C
TQMxE40S-AC	Intel Atom® x6212RE	4 GB	LPDDR4x	16 GB eMMC	LVDS	TPM 2.0	-40°C...+85°C
TQMxE40S-AD	Intel Atom® x6425E	16 GB	LPDDR4x		LVDS	TPM 2.0	-40°C...+85°C
TQMxE40S-AE	Intel Atom® x6413E	8 GB	LPDDR4x		LVDS	TPM 2.0	-40°C...+85°C
TQMxE40S-AF	Intel Atom® x6211E	4 GB	LPDDR4x	32 GB eMMC	LVDS	TPM 2.0	-40°C...+85°C
TQMxE40S-AG	Intel Atom® x6425RE	8 GB	LPDDR4x	32 GB eMMC	LVDS	TPM 2.0	-40°C...+85°C