ISA-L vs. ISA-L-PC Performance

October 1, 2025

Measured on Broadcom BCM2717

Quad-Core ARM Cortex-A76
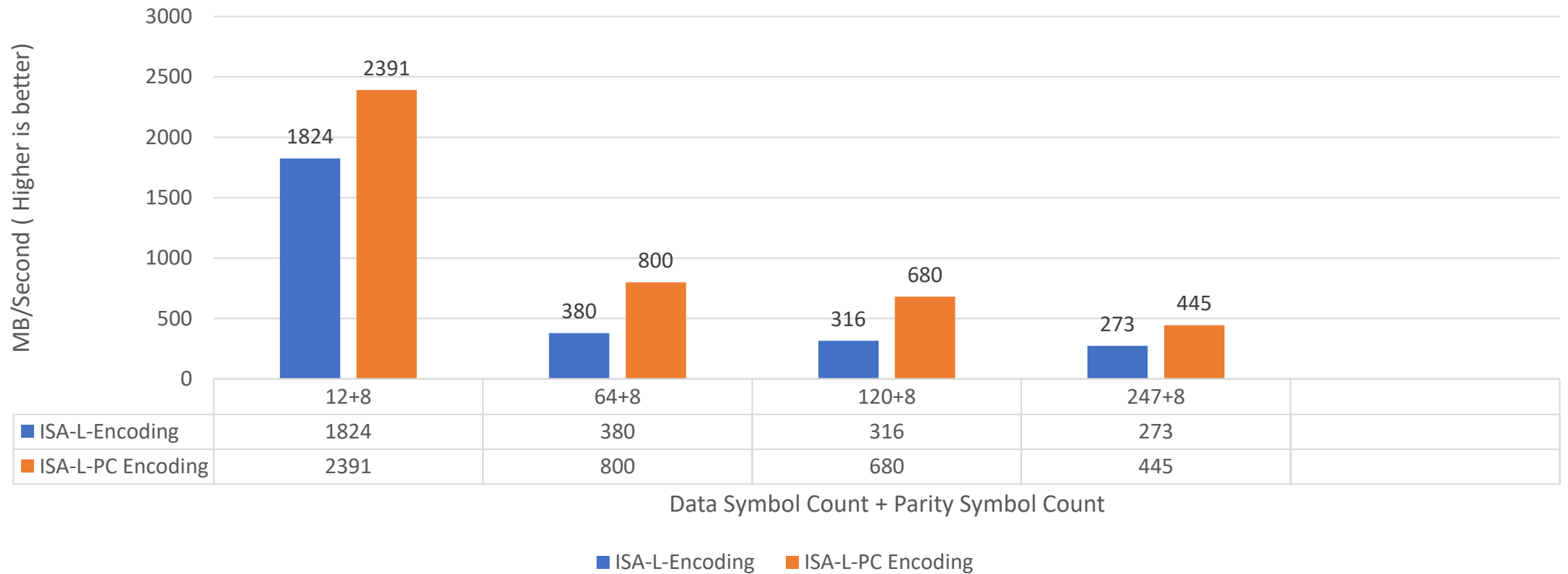
2.4GHz

ISA-L vs. ISA-L-PC
Erasure Encoding Speed
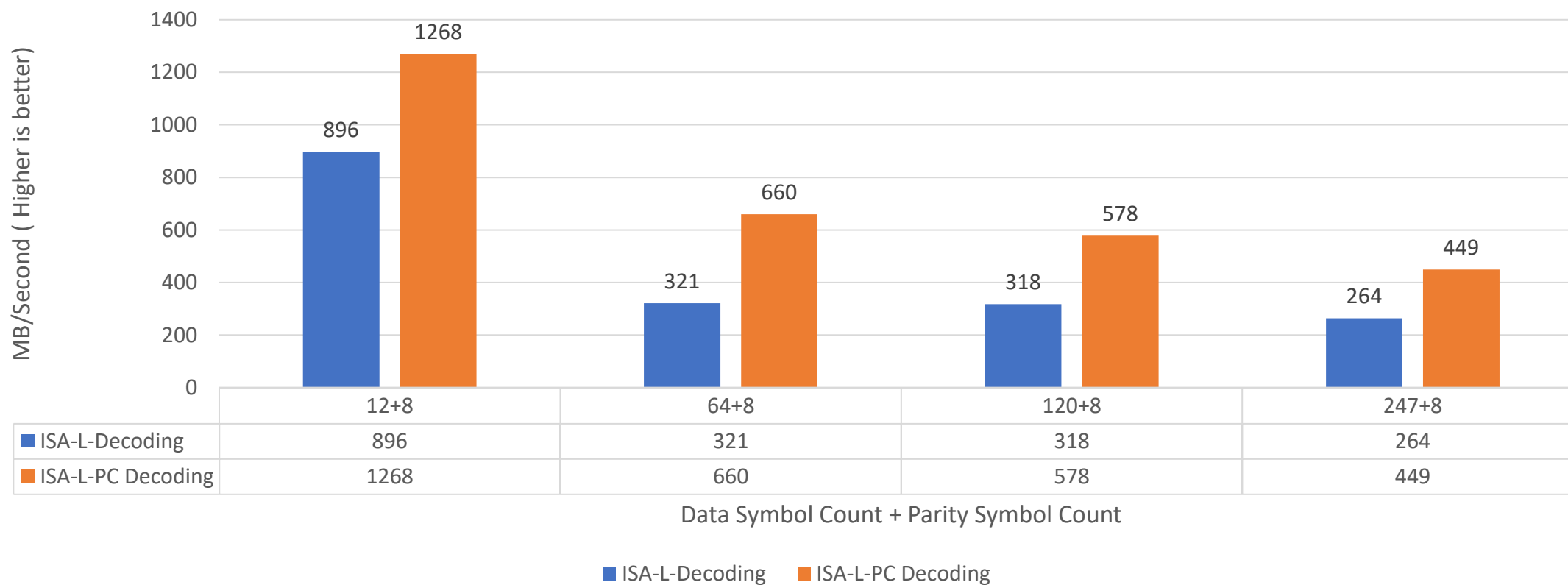8 Check Symbols

Measured with ISA-L BENCHMARK

	12+8	64+8	120+8	247+8
■ ISA-L-Encoding	1824	380	316	273
■ ISA-L-PC Encoding	2391	800	680	445

Data Symbol Count + Parity Symbol Count

MB/Second (Higher is better)

■ ISA-L-Encoding   ■ ISA-L-PC Encoding

ISA-L vs. ISA-L-PC
Error Decoding Speed
8 Check Symbols

Measured with ISA-L BENCHMARK

Data Symbol Count + Parity Symbol Count	12+8	64+8	120+8	247+8
ISA-L-Decoding	896	321	318	264
ISA-L-PC Decoding	1268	660	578	449

ISA-L vs. ISA-L-PC
Erasure Encoding Speed
16 Check Symbols

Measured with ISA-L BENCHMARK

	32+16	64+16	120+16	239+16
■ ISA-L-Encoding	543	338	231	168
■ ISA-L-PC Encoding	1073	687	497	398

Data Symbol Count + Parity Symbol Count

■ ISA-L-Encoding ■ ISA-L-PC Encoding

ISA-L vs. ISA-L-PC
Error Decoding Speed
16 Check Symbols

Measured with ISA-L BENCHMARK

	32+16	64+16	120+16	239+16
ISA-L-Decoding	329	244	200	151
ISA-L-PC Decoding	536	468	377	329

Data Symbol Count + Parity Symbol Count

MB/Second (Higher is better)
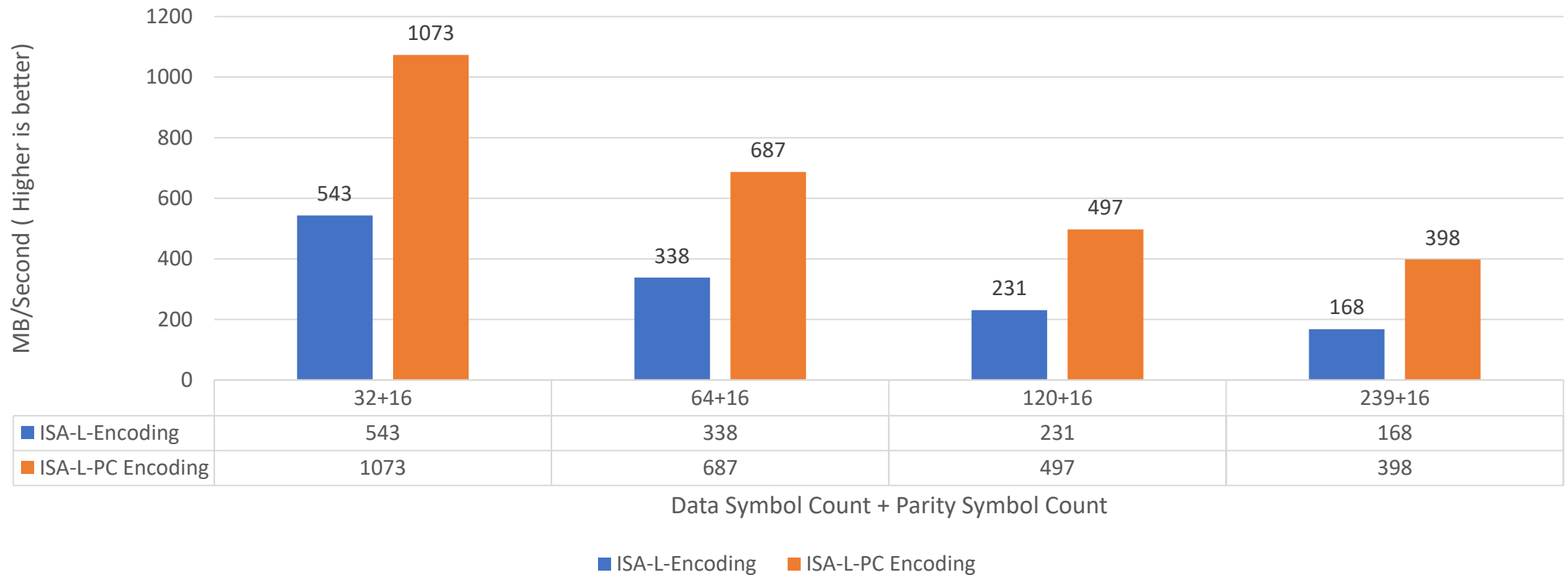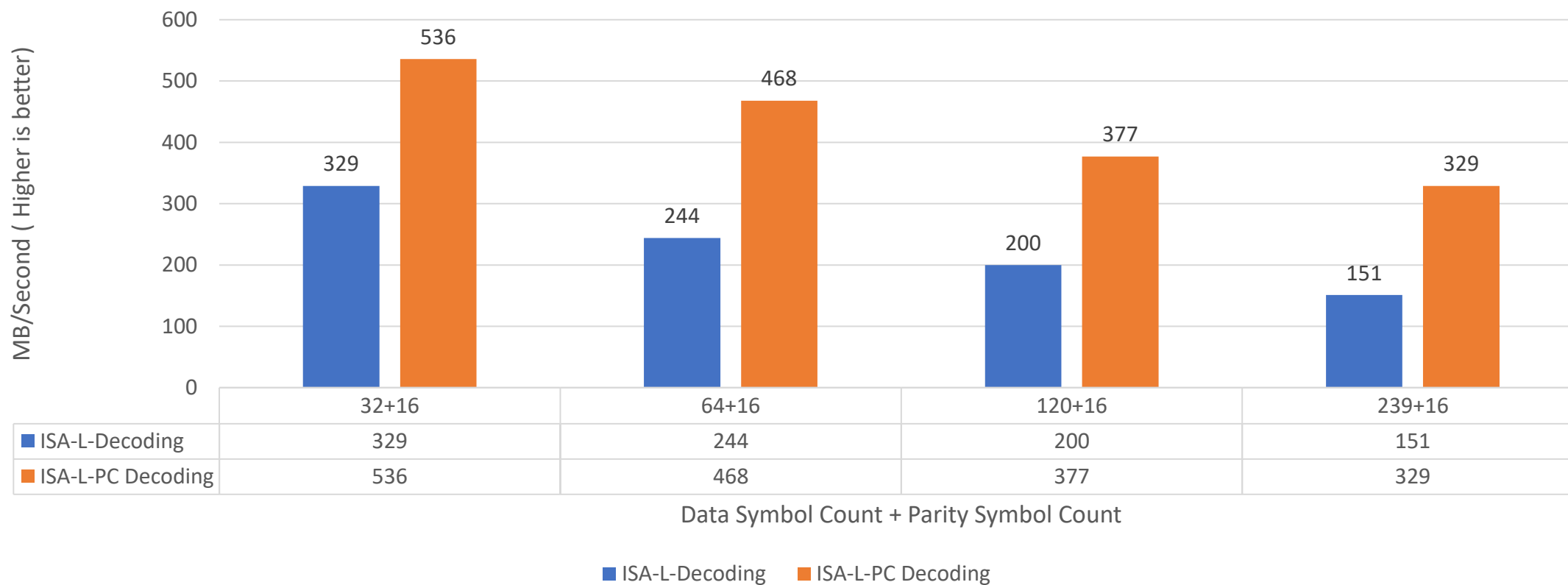
ISA-L vs. ISA-L-PC
Error Decoding Speed
32 Check Symbols

Measured with ISA-L BENCHMARK

	32+32	64+32	120+32	247+32
■ ISA-L-Decoding	137	114	103	81
■ ISA-L-PC Decoding	254	233	209	189

MB/Second (Higher is better)

Data Symbol Count + Parity Symbol Count

■ ISA-L-Decoding   ■ ISA-L-PC Decoding