

# ADI Library for Benchmark

- ◆ G.711
- ◆ G.729/A/B
- ◆ G.723.1
- ◆ G.728
- ◆ G.722
- ◆ G.726



# ADI Library Benchmark Based on BF53x

Function	Instruction Memory -Bytes	Data Memory (constants) - Bytes	Stack -Bytes	Scratch -Bytes	Data Memory Per Instance -Bytes	MHz
<b>G.728 Decoder</b>	7947	2272	-	-	1743	27
G.711 Encoder	512	82	4	0	12	0.11
G.711 Decoder	336	82	4	0	12	0.11
<b>G.711 Full-Duplex</b>	848	82	8	0	24	0.22
G.722 Encoder	1286	1460	48	0	168	2.52
G.722 Decoder	1370	1460	48	0	168	1.99
<b>G.722 Full-Duplex</b>	2656	1460	96	0	336	4.51
G.723.1A Encoder (6.3Kb/s, VAD ON)	24178	18698	-	0	2824	10.34
G.723.1A Encoder (6.3Kb/s, VAD Off)	24178	18698	-	0	2824	10.6
G.723.1A Decoder (6.3Kb/s)	10390	17956	-	0	1740	0.96
<b>G.723.1 Full-Duplex (6.3Kb/s, VAD On)</b>	32936	18758	-	0	4564	11.3



# ADI Library Benchmark Based on BF53x (cont.)

Function	Instruction Memory -Bytes	Data Memory (constants) - Bytes	Stack -Bytes	Scratch -Bytes	Data Memory Per Instance -Bytes	MHz
G.723.1A Encoder (5.3Kb/s, VAD ON)	24178	18698	-	0	2824	10.34
G.723.1A Encoder (5.3Kb/s, VAD Off)	24178	18698	-	0	2824	10.03
G.723.1A Decoder (5.3Kb/s)	10390	17956	-	0	1740	0.91
<b>G.723.1 Full-Duplex (5.3Kb/s, VAD On)</b>	32936	18758	-	0	4564	11.25
G.729AB Encoder (VAD ON)	22384	6062	1516	3372	2140	5.76
G.729AB Encoder (VAD Off)	22384	6062	1516	3372	2140	5.79
G.729AB Decoder	10060	4812	740	3028	1796	1.49
<b>G.729AB Full-Duplex (VAD On)</b>	29068	6062	1516	5168	3936	7.25
G.726 Encoder (40/32/24/16 Kb/s)	2280	548	76	0	60	3.2
G.726 Decoder (40/32/24/16 Kb/s)	2118	548	76	0	60	2.83
<b>G.726 Full-Duplex</b>	4398	548	152	0	120	6.03