

Datasets	Methods	Extraction	Retrieval	Total	GFLOPs
nuScenes	AnyLoc	87.36	49.97	137.33	314.08
	MegaLoc	11.19	8.52	19.71	24.08
	EgoNN	9.41	0.09	9.50	-
	BEVPlace++	17.99	8.43	26.42	10.84
	AutoPlace	21.08	4.22	25.30	20.77
	LCPR	8.38	0.12	8.50	57.85
	LRFusionPR	6.53	0.25	6.78	7.22
	UniMPR (ours)	16.45	0.52	16.97	26.91
Boreas	AnyLoc	85.24	26.88	112.12	314.08
	MegaLoc	10.82	4.40	15.22	22.35
	EgoNN	14.00	0.07	14.07	-
	BEVPlace++	17.53	4.31	21.84	11.49
	OpenRadVLAD	51.96	47.28	99.24	-
	LRFusionPR	6.43	0.14	6.57	7.54
	UniMPR (ours)	9.83	0.17	10.00	14.56

All time measurements are expressed in milliseconds. GFLOPS for sparse convolution-based base-lines are not reported due to unmeasurable complexity