

MAKE	Argus	
NAME	HPX308R	
FREQUENCY	1559	MHz
GAIN	14.8	dBd
ELECTRICAL TILT	0	Degrees
DATE	24.11.2010	

HORIZONTAL PATTERN

Angle in degrees	Discrimination from boresight (dB)	Gain (dBd)
0	0	14.8
1	0.1	14.7
2	0.1	14.7
3	0.1	14.7
4	0.1	14.7
5	0.1	14.7
6	0.2	14.6
7	0.2	14.6
8	0.2	14.6
9	0.3	14.5
10	0.3	14.5
11	0.4	14.4
12	0.5	14.3
13	0.5	14.3
14	0.6	14.2
15	0.7	14.1
16	0.8	14
17	0.9	13.9
18	1	13.8
19	1.1	13.7
20	1.3	13.5
21	1.4	13.4
22	1.6	13.2
23	1.7	13.1
24	1.9	12.9
25	2.1	12.7
26	2.2	12.6
27	2.4	12.4
28	2.6	12.2
29	2.7	12.1
30	2.9	11.9
31	3	11.8
32	3.2	11.6
33	3.3	11.5
34	3.5	11.3
35	3.7	11.1
36	3.8	11

37	4	10.8
38	4.2	10.6
39	4.4	10.4
40	4.6	10.2
41	4.8	10
42	5	9.8
43	5.3	9.5
44	5.5	9.3
45	5.8	9
46	6.1	8.7
47	6.4	8.4
48	6.7	8.1
49	7	7.8
50	7.3	7.5
51	7.5	7.3
52	7.8	7
53	8.1	6.7
54	8.3	6.5
55	8.6	6.2
56	8.9	5.9
57	9.1	5.7
58	9.4	5.4
59	9.7	5.1
60	9.9	4.9
61	10.2	4.6
62	10.5	4.3
63	10.8	4
64	11.1	3.7
65	11.4	3.4
66	11.7	3.1
67	12	2.8
68	12.3	2.5
69	12.6	2.2
70	12.9	1.9
71	13.2	1.6
72	13.5	1.3
73	13.7	1.1
74	14	0.8
75	14.3	0.5
76	14.6	0.2
77	14.8	0
78	15.1	-0.3
79	15.4	-0.6
80	15.8	-1
81	16.1	-1.3
82	16.4	-1.6
83	16.8	-2

84	17.1	-2.3
85	17.4	-2.6
86	17.7	-2.9
87	18	-3.2
88	18.3	-3.5
89	18.7	-3.9
90	19	-4.2
91	19.3	-4.5
92	19.6	-4.8
93	20	-5.2
94	20.3	-5.5
95	20.7	-5.9
96	21	-6.2
97	21.4	-6.6
98	21.7	-6.9
99	22	-7.2
100	22.3	-7.5
101	22.6	-7.8
102	22.9	-8.1
103	23.1	-8.3
104	23.4	-8.6
105	23.6	-8.8
106	23.9	-9.1
107	24.1	-9.3
108	24.4	-9.6
109	24.6	-9.8
110	24.9	-10.1
111	25.1	-10.3
112	25.3	-10.5
113	25.5	-10.7
114	25.7	-10.9
115	25.9	-11.1
116	26.2	-11.4
117	26.4	-11.6
118	26.7	-11.9
119	27	-12.2
120	27.3	-12.5
121	27.7	-12.9
122	28	-13.2
123	28.4	-13.6
124	28.8	-14
125	29.2	-14.4
126	29.5	-14.7
127	29.9	-15.1
128	30.1	-15.3
129	30.4	-15.6
130	30.5	-15.7

131	30.7	-15.9
132	30.7	-15.9
133	30.7	-15.9
134	30.7	-15.9
135	30.7	-15.9
136	30.7	-15.9
137	30.7	-15.9
138	30.8	-16
139	30.8	-16
140	30.9	-16.1
141	31	-16.2
142	31.1	-16.3
143	31.2	-16.4
144	31.4	-16.6
145	31.5	-16.7
146	31.7	-16.9
147	31.9	-17.1
148	32.2	-17.4
149	32.4	-17.6
150	32.7	-17.9
151	33.1	-18.3
152	33.5	-18.7
153	33.9	-19.1
154	34.3	-19.5
155	34.8	-20
156	35.4	-20.6
157	35.9	-21.1
158	36.5	-21.7
159	37.1	-22.3
160	37.7	-22.9
161	38.2	-23.4
162	38.7	-23.9
163	39	-24.2
164	39.2	-24.4
165	39.2	-24.4
166	39.2	-24.4
167	39.1	-24.3
168	38.9	-24.1
169	38.7	-23.9
170	38.6	-23.8
171	38.4	-23.6
172	38.2	-23.4
173	38	-23.2
174	37.7	-22.9
175	37.3	-22.5
176	36.9	-22.1
177	36.4	-21.6

178	35.8	-21
179	35.2	-20.4
180	34.7	-19.9
181	34.2	-19.4
182	33.8	-19
183	33.6	-18.8
184	33.4	-18.6
185	33.3	-18.5
186	33.3	-18.5
187	33.3	-18.5
188	33.4	-18.6
189	33.5	-18.7
190	33.6	-18.8
191	33.7	-18.9
192	33.8	-19
193	33.8	-19
194	33.8	-19
195	33.8	-19
196	33.8	-19
197	33.7	-18.9
198	33.6	-18.8
199	33.5	-18.7
200	33.4	-18.6
201	33.2	-18.4
202	32.9	-18.1
203	32.7	-17.9
204	32.4	-17.6
205	32.1	-17.3
206	31.8	-17
207	31.5	-16.7
208	31.3	-16.5
209	31	-16.2
210	30.8	-16
211	30.6	-15.8
212	30.5	-15.7
213	30.4	-15.6
214	30.3	-15.5
215	30.3	-15.5
216	30.2	-15.4
217	30.2	-15.4
218	30.1	-15.3
219	30	-15.2
220	29.8	-15
221	29.6	-14.8
222	29.3	-14.5
223	29.1	-14.3
224	28.8	-14

225	28.5	-13.7
226	28.4	-13.6
227	28.3	-13.5
228	28.2	-13.4
229	28.3	-13.5
230	28.4	-13.6
231	28.6	-13.8
232	28.7	-13.9
233	28.8	-14
234	28.9	-14.1
235	28.8	-14
236	28.5	-13.7
237	28.2	-13.4
238	27.8	-13
239	27.4	-12.6
240	26.9	-12.1
241	26.5	-11.7
242	26.1	-11.3
243	25.7	-10.9
244	25.4	-10.6
245	25	-10.2
246	24.7	-9.9
247	24.4	-9.6
248	24.1	-9.3
249	23.8	-9
250	23.5	-8.7
251	23.2	-8.4
252	22.9	-8.1
253	22.6	-7.8
254	22.3	-7.5
255	21.9	-7.1
256	21.7	-6.9
257	21.4	-6.6
258	21.1	-6.3
259	20.9	-6.1
260	20.6	-5.8
261	20.4	-5.6
262	20.1	-5.3
263	19.9	-5.1
264	19.6	-4.8
265	19.3	-4.5
266	19	-4.2
267	18.7	-3.9
268	18.4	-3.6
269	18.1	-3.3
270	17.8	-3
271	17.5	-2.7

272	17.2	-2.4
273	16.9	-2.1
274	16.6	-1.8
275	16.3	-1.5
276	16	-1.2
277	15.8	-1
278	15.5	-0.7
279	15.2	-0.4
280	14.9	-0.1
281	14.7	0.1
282	14.4	0.4
283	14.1	0.7
284	13.9	0.9
285	13.6	1.2
286	13.3	1.5
287	13	1.8
288	12.7	2.1
289	12.4	2.4
290	12.1	2.7
291	11.8	3
292	11.5	3.3
293	11.2	3.6
294	10.9	3.9
295	10.6	4.2
296	10.3	4.5
297	10	4.8
298	9.7	5.1
299	9.5	5.3
300	9.2	5.6
301	9	5.8
302	8.7	6.1
303	8.5	6.3
304	8.2	6.6
305	8	6.8
306	7.8	7
307	7.5	7.3
308	7.3	7.5
309	7.1	7.7
310	6.8	8
311	6.6	8.2
312	6.3	8.5
313	6.1	8.7
314	5.8	9
315	5.6	9.2
316	5.3	9.5
317	5.1	9.7
318	4.8	10

319	4.6	10.2
320	4.4	10.4
321	4.1	10.7
322	3.9	10.9
323	3.7	11.1
324	3.4	11.4
325	3.2	11.6
326	3	11.8
327	2.8	12
328	2.6	12.2
329	2.5	12.3
330	2.3	12.5
331	2.2	12.6
332	2.1	12.7
333	1.9	12.9
334	1.8	13
335	1.7	13.1
336	1.6	13.2
337	1.5	13.3
338	1.4	13.4
339	1.3	13.5
340	1.1	13.7
341	1	13.8
342	0.9	13.9
343	0.8	14
344	0.7	14.1
345	0.5	14.3
346	0.4	14.4
347	0.3	14.5
348	0.3	14.5
349	0.2	14.6
350	0.1	14.7
351	0.1	14.7
352	0	14.8
353	0	14.8
354	0	14.8
355	0	14.8
356	0	14.8
357	0	14.8
358	0	14.8
359	0	14.8

VERTICAL PATTERN

Angle in degrees	Discrimination from boresight (dB)	Gain (dBd)
0	0	14.8

1	0.1	14.7
2	0.6	14.2
3	1.3	13.5
4	2.4	12.4
5	3.9	10.9
6	5.8	9
7	8.2	6.6
8	11.3	3.5
9	15.6	-0.8
10	21.7	-6.9
11	33.5	-18.7
12	30.5	-15.7
13	25.7	-10.9
14	25	-10.2
15	26.3	-11.5
16	28.8	-14
17	29.6	-14.8
18	27	-12.2
19	24.2	-9.4
20	22.6	-7.8
21	22	-7.2
22	22.4	-7.6
23	23.8	-9
24	26.6	-11.8
25	32.1	-17.3
26	38.3	-23.5
27	30.7	-15.9
28	25.9	-11.1
29	23.6	-8.8
30	22.4	-7.6
31	22	-7.2
32	22.3	-7.5
33	23.4	-8.6
34	25.4	-10.6
35	28.6	-13.8
36	33.8	-19
37	43.9	-29.1
38	36.7	-21.9
39	31	-16.2
40	28.5	-13.7
41	27.3	-12.5
42	26.9	-12.1
43	27.1	-12.3
44	27.6	-12.8
45	28.4	-13.6
46	29.6	-14.8
47	30.9	-16.1

48	32.4	-17.6
49	33.4	-18.6
50	33.7	-18.9
51	33.2	-18.4
52	32.4	-17.6
53	31.7	-16.9
54	31.1	-16.3
55	30.8	-16
56	30.7	-15.9
57	30.9	-16.1
58	31	-16.2
59	30.9	-16.1
60	31.2	-16.4
61	31.4	-16.6
62	31.5	-16.7
63	31.6	-16.8
64	31.7	-16.9
65	31.8	-17
66	31.7	-16.9
67	31.9	-17.1
68	32.2	-17.4
69	32.8	-18
70	33.7	-18.9
71	34.7	-19.9
72	35.8	-21
73	37	-22.2
74	38	-23.2
75	38.6	-23.8
76	39.2	-24.4
77	39.8	-25
78	40.5	-25.7
79	41.1	-26.3
80	41.7	-26.9
81	42.3	-27.5
82	42.9	-28.1
83	43.2	-28.4
84	41.9	-27.1
85	39.7	-24.9
86	38	-23.2
87	36.6	-21.8
88	35.9	-21.1
89	35.6	-20.8
90	35.6	-20.8
91	35.5	-20.7
92	35.2	-20.4
93	34.7	-19.9
94	34.2	-19.4

95	34	-19.2
96	33.9	-19.1
97	34.2	-19.4
98	34.5	-19.7
99	34.6	-19.8
100	34.7	-19.9
101	35	-20.2
102	35.5	-20.7
103	36.6	-21.8
104	38.1	-23.3
105	40.2	-25.4
106	42.9	-28.1
107	44.2	-29.4
108	43.4	-28.6
109	42.4	-27.6
110	41.9	-27.1
111	42.1	-27.3
112	42.7	-27.9
113	43.8	-29
114	45	-30.2
115	45	-30.2
116	44.1	-29.3
117	42.7	-27.9
118	41.2	-26.4
119	39.8	-25
120	39	-24.2
121	38.2	-23.4
122	38.1	-23.3
123	38.4	-23.6
124	39.3	-24.5
125	40.1	-25.3
126	41	-26.2
127	41.9	-27.1
128	43.1	-28.3
129	44.8	-30
130	45	-30.2
131	45	-30.2
132	45	-30.2
133	44.3	-29.5
134	42.9	-28.1
135	43.2	-28.4
136	44.3	-29.5
137	45	-30.2
138	45	-30.2
139	45	-30.2
140	45	-30.2
141	45	-30.2

142	45	-30.2
143	45	-30.2
144	45	-30.2
145	44.9	-30.1
146	42.8	-28
147	40.5	-25.7
148	39.3	-24.5
149	38.8	-24
150	38.6	-23.8
151	38.5	-23.7
152	38.7	-23.9
153	38.9	-24.1
154	38.8	-24
155	39.2	-24.4
156	40.6	-25.8
157	43.3	-28.5
158	45	-30.2
159	45	-30.2
160	45	-30.2
161	43.5	-28.7
162	41.2	-26.4
163	39.8	-25
164	39.2	-24.4
165	39	-24.2
166	39.2	-24.4
167	39.9	-25.1
168	40.2	-25.4
169	40.3	-25.5
170	41.1	-26.3
171	43	-28.2
172	44.9	-30.1
173	45	-30.2
174	45	-30.2
175	42.5	-27.7
176	38.8	-24
177	36.6	-21.8
178	35.6	-20.8
179	35.3	-20.5
180	35.4	-20.6
181	36.1	-21.3
182	37.2	-22.4
183	38.5	-23.7
184	39.5	-24.7
185	40.9	-26.1
186	42.6	-27.8
187	44.8	-30
188	45	-30.2

189	45	-30.2
190	45	-30.2
191	45	-30.2
192	44.2	-29.4
193	42	-27.2
194	40.7	-25.9
195	40.4	-25.6
196	40.9	-26.1
197	41.6	-26.8
198	43.1	-28.3
199	44.9	-30.1
200	45	-30.2
201	45	-30.2
202	45	-30.2
203	45	-30.2
204	45	-30.2
205	45	-30.2
206	45	-30.2
207	45	-30.2
208	45	-30.2
209	45	-30.2
210	45	-30.2
211	44.9	-30.1
212	43.4	-28.6
213	42.3	-27.5
214	42.3	-27.5
215	43.4	-28.6
216	44.9	-30.1
217	45	-30.2
218	45	-30.2
219	44.9	-30.1
220	43.6	-28.8
221	42.7	-27.9
222	42.9	-28.1
223	44	-29.2
224	45	-30.2
225	45	-30.2
226	45	-30.2
227	45	-30.2
228	45	-30.2
229	45	-30.2
230	45	-30.2
231	45	-30.2
232	45	-30.2
233	45	-30.2
234	45	-30.2
235	45	-30.2

236	44.8	-30
237	42.7	-27.9
238	41.2	-26.4
239	40.3	-25.5
240	40.2	-25.4
241	40.5	-25.7
242	41	-26.2
243	42	-27.2
244	43.3	-28.5
245	43.6	-28.8
246	42.9	-28.1
247	43.8	-29
248	44.9	-30.1
249	45	-30.2
250	45	-30.2
251	45	-30.2
252	44.6	-29.8
253	42.3	-27.5
254	40.6	-25.8
255	39.9	-25.1
256	39.3	-24.5
257	38.7	-23.9
258	38.4	-23.6
259	37.6	-22.8
260	36.1	-21.3
261	34.8	-20
262	34.2	-19.4
263	34.5	-19.7
264	35.4	-20.6
265	36.3	-21.5
266	37.3	-22.5
267	37.9	-23.1
268	37.5	-22.7
269	36.5	-21.7
270	35.6	-20.8
271	34.9	-20.1
272	34.9	-20.1
273	35.9	-21.1
274	38.3	-23.5
275	42.5	-27.7
276	45	-30.2
277	43	-28.2
278	37.9	-23.1
279	35.1	-20.3
280	33.5	-18.7
281	33.2	-18.4
282	33.9	-19.1

283	35.7	-20.9
284	39.1	-24.3
285	44.4	-29.6
286	45	-30.2
287	44.8	-30
288	42.3	-27.5
289	40.1	-25.3
290	38.5	-23.7
291	37.1	-22.3
292	35.7	-20.9
293	34.4	-19.6
294	33.2	-18.4
295	32	-17.2
296	31.3	-16.5
297	31.2	-16.4
298	31.5	-16.7
299	32	-17.2
300	32.2	-17.4
301	31.8	-17
302	31	-16.2
303	30.1	-15.3
304	29.5	-14.7
305	29.2	-14.4
306	29.6	-14.8
307	30.6	-15.8
308	32.9	-18.1
309	37.2	-22.4
310	44.1	-29.3
311	37.4	-22.6
312	31.5	-16.7
313	28.2	-13.4
314	26.1	-11.3
315	24.7	-9.9
316	23.9	-9.1
317	23.7	-8.9
318	23.8	-9
319	24.4	-9.6
320	25.5	-10.7
321	27.4	-12.6
322	30.4	-15.6
323	34.8	-20
324	44.7	-29.9
325	40.3	-25.5
326	33	-18.2
327	29.6	-14.8
328	27.4	-12.6
329	26.2	-11.4

330	25.7	-10.9
331	26	-11.2
332	26.9	-12.1
333	28.5	-13.7
334	29.2	-14.4
335	27.6	-12.8
336	25.1	-10.3
337	23.2	-8.4
338	22.1	-7.3
339	22	-7.2
340	23	-8.2
341	25.2	-10.4
342	29.5	-14.7
343	34.6	-19.8
344	30	-15.2
345	25.8	-11
346	24.2	-9.4
347	24.7	-9.9
348	28.5	-13.7
349	31.5	-16.7
350	21.7	-6.9
351	15.4	-0.6
352	11.3	3.5
353	8.2	6.6
354	5.8	9
355	3.9	10.9
356	2.4	12.4
357	1.4	13.4
358	0.6	14.2
359	0.1	14.7