

Please enter here your receivers with their frequency ranges. It should help us to identify the best ranges for 4 Gbps observations, 2\*512 MHz (dual polarisation). Please keep this table up to date!

For each receiver please provide:

- Available bandwidth in MHz.
- Which IF output can your telescope provide? For example IF: 500-1000
- Total frequency range in GHz
- What limits on LO tunability do exist? Step size.
- Type of polarization
- IF inputs for scheduling (e.g. A, B, A1, C3, ...)
- normal or typical LO value(s).

Telescope		L-band	C-band	M-band	X-band	K-band	Q-band
<b>Arecibo</b>	BW [MHz]						
	IF [MHz]						
	Freq. [GHz]						
	tunable [step size]						
	pol.						
	IF input [RCP, LCP]						
	typical LO						
<b>Badary</b>	BW [MHz]	340	900		900	500	
	IF [MHz]						
	Freq. [GHz]	1.38–1.72	4.60–5.50		8.18–9.08	22.02–22.52	
	tunable [step size]						
	pol.	circ.	circ.		circ.	circ.	
	IF input [RCP, LCP]						
	typical LO						

<sup>ef1</sup> some restrictions on LO exist because of IF boundaries.	BW [MHz]	140	500	4000	920	4000	4000
<sup>hh1</sup> also S-band: 0.24 (2.21-2.45) and Ku-band: 0.40 (11.41-12.61)	IF [MHz]	80-220	500-1000	0-4000	0-920	0-4000	0-4000
<sup>sr1</sup> also P-band: 85, 0.305 - 0.390, 300, 300	Freq. [GHz]	1.29-1.43, 1.58-1.73	4.6-5.1	4-9.3	7.9-9.0	18.0-26.0	33-50
<sup>vi</sup> For more details see freq_RDBE.dat in sched catalog directory	tunable [step size]	1 MHz	1 MHz	1 MHz <sup>ef1</sup>	1 MHz	1 MHz	1 MHz
The old table is available <a href="#">here</a>	pol.	circ.	circ.	linear	circ.	circ.	circ.
<b>Effelsberg</b>	IF input [RCP, LCP]	A2, C4	A1, C3	A1, B3	A3, C1 (geo A4, B4, C2, D2)	A3, C1	A1, C3
	typical LO	1170, 1230, 1490, 1510	4100	8000	7600 (geo 8110)	21500	42400
<b>Hartebeest- hoek</b> <sup>hh1</sup>	BW [MHz]	160	500	150	800	1500	
	IF [MHz]	0-300	0-500	0-400	0-1000	0-1500	
	Freq. [GHz]	1.59-1.75	4.6-5.1	5.9-6.9	8.18-8.98	21.4-24.1	
	tunable [step size]	1 kHz	no	1 kHz	no	1 kHz	
	pol.	circ.	circ.	circ.	circ.	circ.	
	IF input [RCP, LCP]	A1(B2), C1	A1(B2), C1	A1 (B2), C1	A1(B2), C1	A1(B2), C1	
	typical LO	1510	4600	6510	8080	22000	
<b>Irbene</b>	BW [MHz]	200	1000	1200	1200		

Frequency ranges for 2/4 Gbps

	IF [MHz]	200-400	400-1400	300-1500	300-1500		
	Freq. [GHz]	1.4-1.6, 1.6-1.72	4.5-5.5, 5.4-6.4	6.4-7.6	7.6-8.8		
	tunable [step size]	1 kHz	1 MHz	1 MHz	1 MHz		
	pol.	circ.					
	IF input [RCP, LCP]						
	typical LO	1200, 1350	4100, 5000	6100	7300		
<b>Jb-1</b>	BW [MHz]						
	IF [MHz]						
	Freq. [GHz]						
	tunable [step size]						
	pol.						
	IF input [RCP, LCP]						
	typical LO						
<b>JB-2</b>	BW [MHz]	500	500	500		500	
	IF [MHz]	512-1024	512-1024	512-1024		512-1024	

	Freq. [GHz]	1.25-1.75	4.0-7.5	4.0-7.5		20.0-25.02	
	tunable [step size]	1 Hz	1 Hz	1 Hz		1 Hz	
	pol.						
	IF input [RCP, LCP]						
	typical LO						
<b>Kunming</b>	BW [MHz]		442; 954	442; 954	800		
	IF [MHz]		70-512; 70-1024	70-512; 70-1024	100-900		
	Freq. [GHz]		4.0-8.0	4.0-8.0	8.2-9.0		
	tunable [step size]		yes, 1KHz	yes, 1KHz	no		
	pol.		circular	circular	circular		
	IF input [RCP, LCP]						
	typical LO		4600	5900;6400	8100		
<b>Medicina</b>	BW [MHz]	100-130	800	800	800	2000	
	IF [MHz]	290-430	100-900	100-900	100-900	100-2100	

Frequency ranges for 2/4 Gbps

	Freq. [GHz]	1.35-1.45 1.585-1.715	4.3-5.8	5.9-7.3	8.18-8.98	18.0-26.5	
	tunable [step size]	1Hz	1Hz	1Hz	no	1Hz	
	pol.	circular	circular	circular	circular	circular	
	IF input [RCP, LCP]	A1,C1	A1,C1	A1,C1	C1,A1	A1,C1	
	typical LO	1036, 1295	4600	5800,6414	8080	21992	
<b>MERLIN</b>	BW [MHz]						
	IF [MHz]						
	Freq. [GHz]						
	tunable [step size]						
	pol.						
	IF input [RCP, LCP]						
	typical LO						
<b>Metsähovi</b>	BW [MHz]				480	500	500
	IF [MHz]				500-980	500-1000	500-1000
	Freq. [GHz]				8.15-8.65	21.98-22.48	40.0-45.0

	tunable [step size]				no	no	no
	pol.						
	IF input [RCP, LCP]						
	typical LO				7650	21480	42400
<b>Noto</b>	BW [MHz]		400	400	800	500	
	IF [MHz]	37-466	100-500	100-500	1.116-1.916		
	Freq. [GHz]	1.316-1.745	4.62-5.02	5.1-7.25	8.205-8.938	21.7-22.2	
	tunable [step size]	no	no	yes	no	no	
	pol.	circular	circular	circular	circular	circular	
	IF input [RCP, LCP]						
	typical LO	1279					
<b>Onsala</b>	BW [MHz]	500	500	500	1000	500	500
	IF [MHz]	512-1024	512-1536	512-1536	10-1000	512-1024	512-1024
	Freq. [GHz]	1.2-1.75	4.5-7.0	4.5-7.0	8.1-9.1	18.0-26.0	36.0-50.0
	tunable [step size]	1 MHz	1 MHz	1 MHz	no	1 MHz	1 MHz

	pol.	circular	circular	circular	circular	circular	circular
	IF input [RCP, LCP]	A1, C1	A1,C1	A1,C1	A1,C1	A1,C1	A1,C1
	typical LO [MHz]	708	4088	5902	8080	21480	42300
<b>Robledo</b>	BW [MHz]	500			500	70	70
	IF [MHz]	20-520			50-550		
	Freq. [GHz]	1.3-1.8				18.0-26.5	39.0-49.0
	tunable [step size]	yes				yes	yes
	pol.	only RCP					
	IF input [RCP, LCP]						
	typical LO						
<b>Sardinia<sup>sr1</sup></b>	BW [MHz]	500	1400	2000		2000	
	IF [MHz]	500-1000	100-1500	100-2100		100-2100	
	Freq. [GHz]	1.3-1.8	4.2-5.6	5.6-7.6		17.9-25.9	
	tunable [step size]	yes (1 mHZ in the range)	yes (10Hz)	yes (10 Hz)		yes (10 Hz)	



		2100-2400 MHz)					
	pol.	linear, circular	circular	circular		circular	
	IF input [RCP, LCP]	A1, C1	A1, C1	A1, C1		A1,C1	
	typical LO	2324	4600	6400		21964	
<b>Shanghai-25m</b>	BW [MHz]	320	450	850	800		
	IF [MHz]	600-920	500-1000	75-925	100-700		
	Freq. [GHz]	1.38-1.7	4.65-5.1	5.975-6825	8.2-9.0		
	tunable [step size]	no	no	no	no		
	pol.	circ.	circ.	circ.	circ.		
	IF input [RCP, LCP]	A,B	A,B	A,B	A,B		
	typical LO	2300	4200	5900	8100		
<b>Svetloe</b>	BW [MHz]	340	900		900	500	
	IF [MHz]						
	Freq. [GHz]	1.38-1.72	4.60-5.50		8.18-9.08	22.02-22.52	
	tunable [step size]						

Frequency ranges for 2/4 Gbps

	pol.	circ.	circ.		circ.	circ.	
	IF input [RCP, LCP]						
	typical LO						
<b>Tamna</b>	BW [MHz]					8000	8000
	IF [MHz]					8000-16000	8000-16000
	Freq. [GHz]					18.0 - 26.0	35-50
	tunable [step size]					1 kHz	1 kHz
	pol.						
	IF input [RCP, LCP]						
	typical LO						
<b>Tianma 65m</b>	BW [MHz]	400	4000	4000	800	8500	15000
	IF [MHz]	540-940	150-512 150-1024 150-2048 100-2500	150-512 150-1024 150-2048 100-2500	100-900	150-512 150-1024 150-2048 100-2500	150-512 150-1024 150-2048 100-2500
	Freq. [GHz]	1.33-1.73	4.0-8.0	4.0-8.0	8.2-9.0	18.0-26.5	35.0-50.0

Frequency ranges for 2/4 Gbps

tunable [step size]	no	yes,1MHz	yes, 1MHz	no	yes, 1MHz	yes, 1MHz
pol.	linear.	circ.	circ.	circ.	circ.	circ.
IF input [RCP, LCP]	A4,B3	A4,B3	A4,B3	A2,B1 (geo A2,B2,C4,D4)	A4,B3	A4,B3
typical LO	2270	4200	5900	8100	21580	42000

<b>Torun</b>	BW [MHz]	500	500	500		500	
	IF [MHz]						
	Freq. [GHz]	1.30-1.72	4.35-4.95, 4.75-5.35	5.9-6.4		20.0-25.0	
	tunable [step size]	1 kHz	1 kHz	1 kHz		1 kHz	
	pol.						
	IF input [RCP, LCP]						
	typical LO						

<b>Ulsan</b>	BW [MHz]					8000	8000
	IF [MHz]					8000-16000	8000-10000
	Freq. [GHz]					18.0 - 26.0	42.11-44.11
	tunable [step size]					1 kHz	1 kHz

	pol.						
	IF input [RCP, LCP]						
	typical LO						
<b>Urumqi</b>	BW [MHz]	500 (upgrading)	954		900	500	954
	IF [MHz]	100-600	70-1024		100-1000	100-600	70-1024
	Freq. [GHz]	1.2-1.7	4-8		8.2-9.1	22.0-24.2	30-50
	tunable [step size]	no	1MHz		no	1KHz	1MHz
	pol.	circ.	circ.		circ.	circ.	circ.
	IF input [RCP, LCP]						
	typical LO	1100	3930-6976		8100	21900-23600	29930-48976
<b>Westerbork</b>	BW [MHz]	160					
	IF [MHz]						
	Freq. [GHz]	1.15-1.75					
	tunable [step size]	yes					
	pol.						

	IF input [RCP, LCP]						
	typical LO						
<b>YebeS</b>	BW [MHz]		500 / 4000	500 / 4000	500 / 4000	1000	2000
	IF [MHz]		500-1000 / 0-4000	500-1000 / 0-4000	500-1000 / 0-4000	0-1000	100-2100
	Freq. [GHz]		4.5-9.0	4.5-9.0	4.5-9.0	21.0-24.0	32.0-50.0
	tunable [step size]		1 Hz	1 Hz	1 HzU	yes	yes
	pol.		circular	circular	circular	circular	linear (+circular in the range [42-44])
	IF input [RCP, LCP]		A1,C1	A1,C1	A1,C1	A4,C4	A3,C3
	typical LO						
<b>Yonsei</b>	BW [MHz]					8000	8000
	IF [MHz]					8000-16000	8000-16000
	Freq. [GHz]					18.0-26.0	35.0-50.0
	tunable [step size]					1 kHz	1 kHz
	pol.						

	IF input [RCP, LCP]						
	typical LO						
Zelenchukskaya	BW [MHz]	340	900		900	500	
	IF [MHz]						
	Freq. [GHz]	1.38–1.72	4.60–5.50		8.18–9.08	22.02–22.52	
	tunable [step size]						
	pol.	circ.	circ.		circ.	circ.	
	IF input [RCP, LCP]						
	typical LO						
VLBA	BW [MHz]	500	500	500	500	500	500
	IF [MHz]	500-1000	500-1000	500-1000	500-1000	500-1000	500-1000
	Freq. [GHz]	1.18-1.85	4.0-8.0	4.0-8.0	7.7-9.05	20.5-25.3	37.6-46.2
	tunable [step size]	100 MHz	200-300 MHz <sup>v1</sup>	200-300 MHz <sup>v1</sup>	200-300 MHz <sup>v1</sup>	200-300 MHz <sup>v1</sup>	200-300 MHz <sup>v1</sup>
	pol.	circ.	circ.	circ.	circ.	circ.	circ.
	IF input						

Frequency ranges for 2/4 Gbps

[RCP, LCP]						
typical LO						