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DIRECTV "5D2RB" Reverse Band 5 LNB



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Basic Specs:

- 14 SWM channels support 13 tuners (1 channel reserved for control) (*firmware supports 21 tuners unofficially*)
- No support for legacy devices (pre-D12/pre-H21 receivers) (*D12 and R16 receivers may experience errors with this LNB*)
- Can be used with all Slimline reflectors
- Can be powered by HR54, H44, PI21 or PI29Z power inserter
- For 4K, HD and SD programming
- Receives signals (when available) from 99 and 103 satellite locations

Are you on the Cutting Edge?

iamedgecutter.com is home to the Edgecutter Cutting Edge forums, where users actively participate in testing pre-release software for DIRECTV receivers. The resulting rapid-deployment development method allows for faster fixes and abundant new features.

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Please note that some Edgecutter Cutting Edge forum testers and staff members may have received free equipment from DIRECTV or its partners for the purpose of evaluation and testing.

DIRECTV "5D2RB" Reverse Band 5 LNB



DIRECTV's latest LNB is designed to provide service to those who need access to the 119 satellite location for any programming. As with the Reverse Band 3 LNB, it is SWM only. This makes sense since the HR54 Genie is also SWM-only. The HR54 Genie

is the only receiver capable of supporting 4K (although it does not output 4K.) Later in 2016, DIRECTV is expected to offer a non-SWM version which will require a special SWM module, for commercial and large-scale residential applications.

This new LNB fits existing Slimline dishes and looks very similar to a standard Slimline-5 LNB except that the purely decorative plastic has been removed from the left edge. As a result the LNB no longer looks visually balanced but it is considerably smaller. Unlike previous LNBs there is no logo on the front, which reflects a shift to the new AT&T branding which is starting to roll out for new customers.

While the LNB has been in testing for several months, there is no release date set yet. When it is released to DIRECTV's distribution channel, you should be able to pick one up at your favorite online retailer. Swapping an LNB is an easy way to add functionality to your DIRECTV setup and can be done quickly and easily.

DIRECTV "5D2RB" Reverse Band 5 LNB

Edgecutter tester "twizt3dkitty" has been testing the new LNB for some time and offers this firsthand test report:

My test setup starts with a Ka/Ku ODU Gen2 which is the newest model of reflector and back assembly, but does not actually 'reflect' any technical improvements, just easier for installers to assemble. As with all other SWM LNBs, this unit uses one coax wire, but can support up to a total of 21 usable tuners to IRDs. Current official documentation says that it will only support 13, but can be upgraded by firmware to support up to 21. I have access to all 21 now, and have since I began testing, so I cannot comment on the 13 tuners statement, other than that is the official statement.

The single ground block trio is accounting for my off air antenna and Xfinity drop as well as the ODU. I then run an 8way splitter with dedicated lines to an HR54-200, an HR44-700, three total HR24-100s, a C61k-700, and a GenieGo2 that also doubles as my broadband DECA. Most would count the amount of tuners in this setup as 16, however it is actually 18, and this is why.

You will notice all of the pictures showing my transponder readings were taken on tuner 7 of my HR54. This is because as some of you may recall the HR54 actually uses 7 tuners when connected to a reverse band LNB of any type, but 5 when connected to either a analog SWM or digital SWM G1/2 LNB. These two 'hidden' tuners are what will be used to bond transponders in the future. At this time there is no software update planned to enable them for alternate viewing of a 4th or 5th client TV.

My home setup is a total of 18 tuners, unfortunately I was not able to obtain any other IRDs at the time of writing to further test the tuner capabilities. But I am able to verify that NR software from November of 2015 and on is able to support a minimum of 18 tuners which is already more than the 13 officially documented.

This LNB receives both the 99CR and 103CR. Note: the 99CR actually has 18 transponders out of which 16 are live. However all current IRD Firmware only looks at 4 of these 16, TP 2,9,16,17. This includes the latest CE as of writing 0xB9D. Note: the 103CR is functional but has not yet been powered up by DTV so to speak, hence no transponders will lock and IRDs will show 0s. This is normal for now.

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The following transponder survey was obtained by Edgcutter Cutting Edge Forums user "twizt3dkitty."

Sat/Tr	Freq(MHz)	Pwr (dBm)	SNR (dB)	SQ	Offset (MHz)	Lock	Volts (V)	Cur (mA)	ODU	DSWM
ssss/tt	xxxx.xx	-xxx.x	xx.x	xxx	(-)x.xx	xxx	xx.x	xxxx	abcd	x
99a/9	1840.00	--	--	--	--	NO	21.2	230	Slimline-5DR	2
99a/10	1840.00	--	--	--	--	NO	21.1	320	Slimline-5DR	2
99a/11	1880.00	-29.5	14.2	97	-0.27	YES	21.1	360	Slimline-5DR	2
99a/12	1880.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
99a/13	1920.00	-29.7	13.5	96	-0.27	YES	21.1	360	Slimline-5DR	2
99a/14	1920.00	-29.5	14.4	97	-0.27	YES	21.1	360	Slimline-5DR	2
99a/15	1960.00	-29.7	14.1	97	-0.27	YES	21.1	360	Slimline-5DR	2
99a/16	1960.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
99a/17	2000.00	-29.6	12.9	95	-0.28	YES	21.1	360	Slimline-5DR	2
99a/18	2000.00	-29.7	14.4	97	-0.28	YES	21.1	360	Slimline-5DR	2
99a/19	2040.00	-29.7	12.8	95	-0.28	YES	21.1	360	Slimline-5DR	2
99a/20	2040.00	-29.7	14.1	97	-0.28	YES	21.1	360	Slimline-5DR	2
99a/21	2080.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
99a/22	2080.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
99a/23	2120.00	-29.8	14.2	97	-0.28	YES	21.1	360	Slimline-5DR	2
99a/24	2120.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
99b/1	274.00	-29.9	14.3	97	-0.26	YES	21.1	360	Slimline-5DR	2
99b/2	274.00	-29.8	14.4	97	-0.25	YES	21.1	360	Slimline-5DR	2
99b/3	314.00	-30.0	13.0	95	-0.25	YES	21.1	360	Slimline-5DR	2
99b/4	314.00	-29.9	13.3	95	-0.25	YES	21.1	360	Slimline-5DR	2
99b/5	354.00	-29.9	13.6	96	-0.26	YES	21.1	360	Slimline-5DR	2
99b/6	354.00	-29.9	13.5	96	-0.25	YES	21.1	360	Slimline-5DR	2
99b/7	394.00	-30.0	12.9	95	-0.25	YES	21.1	360	Slimline-5DR	2
99b/8	394.00	-29.9	13.2	95	0.37	YES	21.1	360	Slimline-5DR	2
99b/9	434.00	-30.0	13.4	95	-0.26	YES	21.1	360	Slimline-5DR	2
99b/10	434.00	-30.0	13.6	96	-0.25	YES	21.1	360	Slimline-5DR	2
99b/11	474.00	-30.0	13.1	95	-0.26	YES	21.1	360	Slimline-5DR	2
99b/12	474.00	-30.0	13.1	95	-0.25	YES	21.1	360	Slimline-5DR	2
99b/13	514.00	-29.9	14.4	97	-0.25	YES	21.1	360	Slimline-5DR	2
99b/14	514.00	-30.1	14.1	97	-0.27	YES	21.1	360	Slimline-5DR	2
99rb/1	276.00	-29.7	11.2	85	0.07	YES	21.1	360	Slimline-5DR	2
99rb/2	276.00	-29.8	12.0	90	0.07	YES	21.1	360	Slimline-5DR	2
99rb/3	316.00	-30.0	11.5	87	0.07	YES	21.1	360	Slimline-5DR	2
99rb/4	316.00	-29.9	12.6	94	0.07	YES	21.1	360	Slimline-5DR	2
99rb/5	356.00	-30.0	11.6	88	0.07	YES	21.1	360	Slimline-5DR	2
99rb/6	356.00	-29.9	12.5	93	0.04	YES	21.1	360	Slimline-5DR	2
99rb/7	396.00	-30.0	11.8	89	0.07	YES	21.1	360	Slimline-5DR	2
99rb/8	396.00	-29.8	12.7	94	0.07	YES	21.1	360	Slimline-5DR	2
99rb/9	436.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
99rb/10	436.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
99rb/11	476.00	-29.9	11.9	89	0.07	YES	21.1	360	Slimline-5DR	2
99rb/12	476.00	-29.9	12.8	95	0.07	YES	21.1	360	Slimline-5DR	2
99rb/13	516.00	-29.8	12.0	90	0.07	YES	21.1	360	Slimline-5DR	2
99rb/14	516.00	-30.1	12.8	95	0.07	YES	21.1	360	Slimline-5DR	2
99rb/15	556.00	-30.0	11.8	89	0.07	YES	21.1	360	Slimline-5DR	2
99rb/16	556.00	-30.0	12.4	92	0.06	YES	21.1	360	Slimline-5DR	2
99rb/17	596.00	-29.9	12.0	90	0.07	YES	21.1	360	Slimline-5DR	2
99rb/18	596.00	-30.0	12.6	94	0.07	YES	21.1	360	Slimline-5DR	2

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Sat/Tr	Freq (MHz)	Pwr (dBm)	SNR (dB)	SQ	Offset (MHz)	Lock	Volts (V)	Cur (mA)	ODU	DSWM	
ssss/tt	xxxx.xx	-xxx.x	xx.x	xxx	(-)x.xx	xxx	xx.x	xxxx	abcd	x	
101/1	974.00	-31.0	15.4	99	0.16	YES	21.2	330	Slimline-5DR		2
101/2	988.58	-32.2	15.0	99	0.09	YES	21.2	330	Slimline-5DR		2
101/3	1003.16	-31.8	15.0	99	0.16	YES	21.2	330	Slimline-5DR		2
101/4	1017.74	-31.5	13.0	95	0.22	YES	21.1	330	Slimline-5DR		2
101/5	1032.32	-32.0	15.1	99	0.22	YES	21.1	330	Slimline-5DR		2
101/6	1046.90	-31.8	17.5	100	0.16	YES	21.1	330	Slimline-5DR		2
101/7	1061.48	-31.6	15.2	99	0.21	YES	21.2	330	Slimline-5DR		2
101/8	1076.06	-31.2	17.5	100	0.15	YES	21.2	330	Slimline-5DR		2
101/9	1090.64	-31.8	15.3	99	0.16	YES	21.1	330	Slimline-5DR		2
101/10	1105.22	-33.1	15.5	100	-0.03	YES	21.1	330	Slimline-5DR		2
101/11	1119.80	-31.9	15.4	99	0.16	YES	21.2	330	Slimline-5DR		2
101/12	1134.38	-31.4	13.5	96	0.16	YES	21.1	330	Slimline-5DR		2
101/13	1148.96	-32.0	15.3	99	0.09	YES	21.2	330	Slimline-5DR		2
101/14	1163.54	-31.8	17.4	100	0.15	YES	21.1	330	Slimline-5DR		2
101/15	1178.12	-31.9	15.1	99	0.22	YES	21.1	330	Slimline-5DR		2
101/16	1192.70	-32.3	17.3	100	0.22	YES	21.2	330	Slimline-5DR		2
101/17	1207.28	-32.0	15.0	99	0.15	YES	21.2	330	Slimline-5DR		2
101/18	1221.86	-30.8	18.4	100	0.23	YES	21.2	330	Slimline-5DR		2
101/19	1236.44	-31.8	14.8	98	0.09	YES	21.2	330	Slimline-5DR		2
101/20	1251.02	-32.9	12.8	95	0.15	YES	21.2	330	Slimline-5DR		2
101/21	1265.60	-31.9	14.9	98	0.09	YES	21.1	330	Slimline-5DR		2
101/22	1280.18	-31.7	17.2	100	0.15	YES	21.1	330	Slimline-5DR		2
101/23	1294.76	-31.7	15.1	99	0.15	YES	21.2	330	Slimline-5DR		2
101/24	1309.34	-31.9	17.4	100	0.21	YES	21.1	330	Slimline-5DR		2
101/25	1323.92	-32.0	14.6	98	0.15	YES	21.2	330	Slimline-5DR		2
101/26	1338.50	-31.1	14.2	97	0.17	YES	21.2	330	Slimline-5DR		2
101/27	1353.08	-31.9	14.7	98	0.09	YES	21.2	330	Slimline-5DR		2
101/28	1367.66	-34.5	7.4	59	0.17	YES	21.1	330	Slimline-5DR		2
101/29	1382.24	-32.0	16.0	100	0.22	YES	21.2	330	Slimline-5DR		2
101/30	1396.82	-31.5	17.0	100	0.33	YES	21.1	330	Slimline-5DR		2
101/31	1411.40	-31.0	14.9	98	0.15	YES	21.2	330	Slimline-5DR		2
101/32	1425.98	-30.9	17.5	100	0.21	YES	21.2	330	Slimline-5DR		2
103a/9	1840.00	-30.0	14.5	98	-0.28	YES	21.2	360	Slimline-5DR		2
103a/10	1840.00	-30.1	14.2	97	-0.28	YES	21.1	360	Slimline-5DR		2
103a/11	1880.00	-30.1	13.9	96	-0.28	YES	21.1	360	Slimline-5DR		2
103a/12	1880.00	-30.1	13.2	95	-0.28	YES	21.1	360	Slimline-5DR		2
103a/13	1920.00	-30.0	13.6	96	-0.28	YES	21.1	360	Slimline-5DR		2
103a/14	1920.00	-30.1	13.4	95	-0.28	YES	21.2	360	Slimline-5DR		2
103a/15	1960.00	-30.2	13.5	96	-0.28	YES	21.1	360	Slimline-5DR		2
103a/16	1960.00	-30.2	13.7	96	-0.28	YES	21.1	360	Slimline-5DR		2
103a/17	2000.00	-30.1	13.4	95	-0.28	YES	21.1	360	Slimline-5DR		2
103a/18	2000.00	-30.0	13.6	96	-0.28	YES	21.2	360	Slimline-5DR		2
103a/19	2040.00	-30.1	14.1	97	-0.28	YES	21.2	360	Slimline-5DR		2
103a/20	2040.00	-30.0	13.9	96	-0.28	YES	21.1	360	Slimline-5DR		2
103a/21	2080.00	-30.1	13.6	96	-0.28	YES	21.1	360	Slimline-5DR		2
103a/22	2080.00	-30.0	13.4	95	-0.28	YES	21.1	360	Slimline-5DR		2
103a/23	2120.00	-30.0	14.0	97	-0.28	YES	21.1	360	Slimline-5DR		2
103a/24	2120.00	-29.9	14.4	97	-0.28	YES	21.1	360	Slimline-5DR		2
103b/1	274.00	-30.0	13.8	96	-0.25	YES	21.2	360	Slimline-5DR		2
103b/2	274.00	-30.0	14.2	97	-0.24	YES	21.1	360	Slimline-5DR		2
103b/3	314.00	-30.1	12.7	94	-0.26	YES	21.1	360	Slimline-5DR		2
103b/4	314.00	-30.0	13.2	95	-0.25	YES	21.1	360	Slimline-5DR		2
103b/5	354.00	-30.0	12.7	94	-0.26	YES	21.1	360	Slimline-5DR		2
103b/6	354.00	-30.1	13.6	96	-0.25	YES	21.2	360	Slimline-5DR		2
103b/7	394.00	-30.1	12.6	94	-0.26	YES	21.2	360	Slimline-5DR		2
103b/8	394.00	-30.1	12.9	95	-0.25	YES	21.2	360	Slimline-5DR		2

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Sat/Tr	Freq (MHz)	Pwr (dBm)	SNR (dB)	SQ	Offset (MHz)	Lock	Volts (V)	Cur (mA)	ODU	DSWM
ssss/tt	xxxx.xx	-xxx.x	xx.x	xxx	(-)x.xx	xxx	xx.x	xxxx	abcd	x
103b/9	434.00	-30.2	12.9	95	-0.26	YES	21.2	360	Slimline-5DR	2
103b/10	434.00	-30.1	13.4	95	-0.25	YES	21.2	360	Slimline-5DR	2
103b/11	474.00	-30.2	12.9	95	-0.26	YES	21.1	360	Slimline-5DR	2
103b/12	474.00	-30.0	13.3	95	-0.25	YES	21.1	360	Slimline-5DR	2
103b/13	514.00	-30.2	13.0	95	-0.27	YES	21.2	360	Slimline-5DR	2
103b/14	514.00	-30.0	13.5	96	-0.27	YES	21.2	360	Slimline-5DR	2
103rb/1	1676.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/2	1676.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/3	1716.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/4	1716.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/5	1756.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/6	1756.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/7	1796.00	--	--	--	--	NO	21.2	360	Slimline-5DR	2
103rb/8	1796.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/9	1836.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/10	1836.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/11	1876.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/12	1876.00	--	--	--	--	NO	21.2	360	Slimline-5DR	2
103rb/13	1916.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/14	1916.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/15	1956.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/16	1956.00	--	--	--	--	NO	21.2	360	Slimline-5DR	2
103rb/17	1996.00	--	--	--	--	NO	21.1	360	Slimline-5DR	2
103rb/18	1996.00	--	--	--	--	NO	21.2	360	Slimline-5DR	2
110/8	1076.06	-34.9	10.4	80	-0.74	YES	21.2	330	Slimline-5DR	2
110/10	1105.22	-33.9	7.4	59	-0.68	YES	21.2	330	Slimline-5DR	2
110/12	1134.38	-30.7	11.7	88	-0.74	YES	21.2	330	Slimline-5DR	2
119/22	1280.18	-31.8	14.8	98	-0.79	YES	21.1	330	Slimline-5DR	2
119/23	1294.76	-30.6	17.9	100	-0.79	YES	21.2	330	Slimline-5DR	2
119/24	1309.34	-32.0	15.4	99	-1.09	YES	21.2	330	Slimline-5DR	2
119/25	1323.92	-34.5	7.1	56	-0.75	YES	21.2	330	Slimline-5DR	2
119/26	1338.50	-31.7	16.1	100	-0.80	YES	21.2	330	Slimline-5DR	2
119/27	1353.08	-31.0	16.6	100	-0.86	YES	21.2	330	Slimline-5DR	2
119/28	1367.66	-31.8	15.6	100	-0.80	YES	21.1	330	Slimline-5DR	2
119/29	1382.24	-33.4	8.9	72	-0.69	YES	21.2	330	Slimline-5DR	2
119/30	1396.82	-31.8	15.9	100	-0.86	YES	21.2	330	Slimline-5DR	2
119/31	1411.40	-30.4	10.1	79	-0.76	YES	21.2	330	Slimline-5DR	2
119/32	1425.98	-31.0	16.0	100	-0.74	YES	21.2	330	Slimline-5DR	2

History of the Cutting Edge

The Cutting Edge program started with a partnership between DIRECTV and hobbyist Earl Bonovich, Earl had been known for his reviews of the DIRECTV R10 and R15 DVRs. In 2005 Earl was asked to join the staff at DBSTalk, and he was able to build the bridge between DBSTalk and the DIRECTV engineering department. In 2006 DIRECTV released the HR20 HD DVR; later in 2006 Earl announced the first optional download for DIRECTV receivers and the Cutting Edge was born. Since then thousands of downloads have been available over the entire DIRECTV line of receivers. The Cutting Edge was hosted at DBSTalk from 2006 - 2015. In 2015 it was requested that the program be run at a neutral, more DIRECTV-central site with a desire to do a better job serving the needs of the Cutting Edge program as DIRECTV defines it. Today it is hosted at iamanedgecutter.com, the Edgecutter Cutting Edge forums. We thank DBSTalk for hosting the program for all of those years and wish them the best going forward.