

LNBFs and Hardware



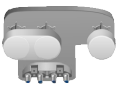

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LNBF	IMAGE	ORBITAL	OUTPUTS	INPUT	SWITCH	MAX RECEIVE	COMPATI RECEIVE	REFLECT	NOTES
Dish Pro Plus (DPP)									
DPP Twin		110, 119	2	Yes	DPP switches	2 single tuners or 2 dual tuners (Hopper capable)	301, 301, 322, 512, 522, 625	500	When connected to a DPP 44, the LNB In Port is disabled
DPP EA Twin		61.5, 72.7	3	No	DPP 44	3 single tuners or 3 dual tuners (Hopper capable)	Wally, 211, 222, 612, 622, 722, 922, Hopper 1, Hopper 2	1000.2	-
DPP 1000.4		61.5, 72.7, 77	3	Yes	DPP 44	3 single tuners or 3 dual tuners (Hopper capable)	Wally, 211, 222, 612, 622, 722, 922, Hopper 1, Hopper 2	1000.4 or 500+ repoint kit	When connected to a DPP 44, the LNB In Port is disabled
DPP 1000.2		110, 119, 129	3	Yes	DPP 44	3 single tuners or 3 dual tuners (Hopper capable)	301, 311, 322, 512, 522, 625, Wally, 211, 222,	1000.2	When connected to a DPP 44, the LNB In





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							612, 622, 722, 922, Hopper 1, Hopper 2		Port is disabled
DPP 500+		110, 118.7, 119	3	Yes	DPP 44	3 single tuners or 3 dual tuners (Hopper capable)	301, 311, 322, 512, 522, 625, Wally, 211, 222, 612, 622, 722, 922, Hopper 1, Hopper 2	500+	Unlike DP 500+/1000+, a switch is not required for operation
DPP 1000+		110, 118.7, 119, 129	3	Yes	DPP 44	3 single tuners or 3 dual tuners (Hopper capable)	301, 311, 322, 512, 522, 625, Wally, 211, 222, 612, 622, 722, 922, Hopper 1, Hopper 2	500+	Unlike DP 500+/1000+, a switch is not required for operation
Dish Pro (DP)									
DP Single		Any (one)	1	No	DP or DPP switches	1 single tuner	301, 311, 322, 512, 522, 625, Wally, 211, 222, 612,622,722,922, Hopper 1, Hopper 2	500, 1000.2, 1000+	-

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<p>DP Dual</p>		<p>Any (one)</p>	<p>2</p>	<p>No</p>	<p>DP or DPP switches</p>	<p>2 single tuners or 1 dual tuner</p>	<p>301, 311, 322, 512, 522, 625, Wally, 211, 222, 612, 622, 722, 922, Hopper 1, Hopper 2</p>	<p>500, 1000.2, 1000+</p>	<p>DP Low Noise Dual is identical to the DP Dual but is used for the 500H reflector</p>
<p>DP Twin</p>		<p>110, 119</p>	<p>2</p>	<p>No</p>	<p>DP or DPP switches</p>	<p>2 single tuners or 1 dual tuner</p>	<p>301, 311, 322, 512, 522, 625</p>	<p>500</p>	<p>When it is connected directly to receivers or to a DP 21, each cable carries both 110 and 119. When connected to switches, Port 1 provides 119 and Port 2 provides 110.</p>
<p>DP Quad</p>		<p>110, 119</p>	<p>4</p>	<p>No</p>	<p>1-2 DP or DPP switches</p>	<p>4 single tuners or 2 dual tuners</p>	<p>301, 311, 322, 512, 522, 625</p>	<p>500</p>	<p>When it is connected directly to receivers or to a DP 21, each cable carries both 110 and 119. When connected to switches, Ports 1</p>



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									and 3 provide 119 and Ports 2 and 4 provide 110.
DP 500+		110, 118.7, 119	3	No	Required: DPP 33, DP 34, or DPP 44	4 single tuners or 4 dual tuners	301, 311, 322, 512, 522, 625, Wally, 211, 222, 612, 622, 722, 922, Hopper 1, Hopper 2	500+	-
DP 1000+		110, 118.7, 119, 129	3	No	Required: DPP 44	4 single tuners or 4 dual tuners	301, 311, 322, 512, 522, 625, Wally, 211, 222, 612, 622, 722, 922, Hopper 1, Hopper 2	500+	-
Dish Pro Hybrid (DPH)									
DPH EA		61.5, 72.7	2	Yes	-	Hub dependent	Hopper 1, Hopper 2, Hopper 3	1000.2	Red DISH logo on back of LNBF for easier identification. For Hopper installations only.
DPH WA		110, 119, 129	2	Yes	-	Hub dependent	Hopper 1, Hopper 2, Hopper 3	1000.2	Red DISH logo on back of LNBF for


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												easier identification. For Hopper installations only.
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SWITCH	IMAGE	INPUTS	OUTPUT	MAX RECEIV	LNBFs	ORBITA LOCATI	POWER INSTER	UL	TRUNK TIMES	TRUNK TO	NOTES
DPP 33		3	3	3 dual tuners	DP only	3	No	Yes	1 (ends a trunk)	DP 34 or DPP 44	To power the switch, at least one DP or DPP receiver must be connected and powered on at all times. If DPP separators are used, do not place a diplexer between the receiver's satellite In Ports and the DPP separator.
DPP 44		4	4	4 tuners (not trunked),	DP and DPP	4	Yes	Yes	3	DPP 33, DPP 44	When trunking DPP 44

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				12 tuners (trunked)						44, or DP 34	switches together, each switch must have a power inserter installed to power inserter Port 1. A power inserter must be installed inside and should be plugged in after all other connections have been made. Except for diplexers, do not install any components between the power inserter and the switch.
DP 21		2	1	1 tuner	DP Twin, DP Quad, DP Dual, or DP Single	3	No	No	-	-	When used with a DP Twin or Quad, one port from



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											the LNBF provides both 110 and 119 to the DP 21 switch
DP 34		3	4	4 tuners (not trunked), 12 tuners (trunked)	DP only	3	No	Yes	3	DPP 33, DPP 44, or DP 34	When used with a DP Twin, Port 1 provides 119 and Port 2 provides 110. When used with a DP Quad, Ports 1 and 3 provide 110 and Ports 2 and 4 provide 119. Single-tuner receivers use one DP 34 tuner output; dual-tuner receivers must be connected to two of the DP 34

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											tuner outputs.
DPH 42		4	2	16 Wallys (2 tuners per Wally)	DP and DPP	4	Yes	Yes	1 (ends a trunk)	-	The DPH 42 switch is not compatible with DPH LNBF's. For detailed installation instructions, use this Installation Guide .

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NODE	IMAGE	INPUT	OUTPUTS (HOST)	OUTPUTS (CLIENT)	MAX RECEIVE	LNBFs	SWITCH	UL	NOTES
Solo Node		2	1	1	1 Hopper, 3 Joeys	DPP	DPP 33, DPP 44	Yes	If connected to a switch, there must be a power inserter between the node and the LNBF
Duo Node		3	2	2	2 Hoppers, 6 Joeys	DPP	DPP 33, DPP 44	Yes	If connected to a switch, there must be a power inserter between

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									the node and the LNBF
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HUB	IMAGE	INPUT	OUTPUTS (HOST)	OUTPUTS (CLIENT)	MAX RECEIVE	LNBFs	SWITCH	UL	NOTES
Solo Hub		1	1	2	1 Hopper, 3 Joeys	DPH	-	Yes	-
Duo Hub		2	2	1	2 Hoppers, 6 Joeys	DPH	-	Yes	Supports Super Joey on Host/Adv Client line

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