

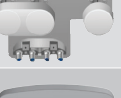
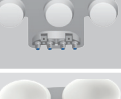









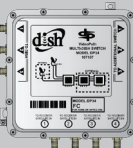




	LNBF	Image	Orbitals	Outputs	Input	Switch	Max. Receivers	Reflectors	Notes
Dish Pro Plus (DPP)	DPP Twin		110°, 119°	2	Yes	DPP switches	2 single tuners or 2 dual tuners (Hopper capable)	500	When connected to a DPP 44 the LNB In Port is disabled.
	DPP EA Twin		61.5°, 72.7°	3	No	DPP 44	3 single tuners or 3 dual tuners (Hopper capable)	1000.2	
	DPP 1000.4		61.5°, 72.7°, 77°	3	Yes	DPP 44	3 single tuners or 3 dual tuners (Hopper capable)	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)	1000.2	When connected to a DPP 44 the LNB In Port is disabled.
	DPP 500+		110°, 118.7°, 119°	3	Yes	DPP 44	3 single tuners or 3 dual tuners (Hopper capable)	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)	500+	Unlike DP 500+/1000+ a switch is not required for operation
Dish Pro (DP)	DP Single		Any (1)	1	No	DP or DPP switches	1 single tuner	500, 1000.2, 1000+	
	DP Dual		Any (1)	2	No	DP or DPP switches	2 single tuners or 1 dual tuner	500, 1000.2, 1000+	DP Low Noise Dual is identical to the DP Dual; however, is used for the 500H reflector.
	DP Twin		110°, 119°	2	No	DP or DPP switches	2 single tuners or 1 dual tuner	500	When connected directly to receivers or to a DP 21, each cable carries both 100 and 119. When connected to switches, Port 1 provides 119 and Port 2 provides 110.
	DP Quad		110°, 119°	4	No	1 or 2 DP or DPP switches	4 single tuners or 2 dual tuner	500	When connected directly to receivers or to a DP 21, each cable carries both 110 and 119. When connected to switches, Port 1 and 3 provide 119, and Port 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 tuner	500+	
	DP 1000+		110°, 118.7°, 119°, 129°	3	No	Required: DPP 44	4 single tuners or 4 dual tuner	500+	

Switch	Image	Inputs	Outputs	Max. Receivers	LNBFs	Orbital Locations	Power Inserter	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) 12 tuners (trunked)	DP and DPP	4	Yes	Yes	3	DPP 33, DPP 44, or DP 34	When trunking DPP 44 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 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 and dual-tuner receivers must be connected to two of the DP 34 tuner outputs.

Node	Image	Input	Output (host)	Output (client)	Max. Receivers	LNBFs	Switch	UL	Notes
Solo Node		2	1	1	1 Hopper, 3 Joeyes	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 Joeyes	DPP	DPP 33, DPP 44	Yes	If connected to a switch, there must be a power inserter between the node and the LNBF.