

Technetix Traditional Outdoor Multitaps 4-way 1.8 GHz

- Frequency range 5 - 1800 MHz
- Housing including RF/AC bypass switch
3.0 GHz ready
- Traditional dB values available for 2/4/8-way
faceplates
- No-screw in/out connector design for
4x faster installation
- Range of conditioning plug in's available



Overview

To upgrade the outdoor access network to DOCSIS 4.0 the products need to support an extended frequency band to 1.8GHz. This product is developed to meet the needs of the American market following SCTE guidelines for 1.8GHz Hardline Multitaps.

The no-screw in/out connector interface is greatly improved to meet the high RF performance and low maintenance needs of DOCSIS 4.0 deployments. The by default horizontally positioned connectors can be turned easily into the bottom position for pedestal installation when both cables come directly from the ground.

Insertion loss (In / out)

	OTTZ-4-8T	OTTZ-4-11	OTTZ-4-14	OTTZ-4-17	OTTZ-4-20	OTTZ-4-23	OTTZ-4-26	OTTZ-4-29	
Frequency	Typ	Typ	Typ	Typ	Typ	Typ	Typ	Typ	Max
5	n/a	3.0	1.9	0.9	1.1	0.5	0.4	0.4	
10	n/a	3.0	1.7	0.8	1.0	0.5	0.4	0.4	+/- 0.5 dB
50	n/a	3.0	1.7	0.8	1.0	0.5	0.4	0.4	+/- 0.5 dB
256	n/a	3.1	1.8	0.9	1.0	0.6	0.5	0.5	+/- 0.5 dB
862	n/a	3.8	2.6	1.6	1.2	0.8	0.6	0.7	+/- 0.5 dB
1006	n/a	3.9	2.7	1.7	1.3	0.9	0.8	0.8	+/- 0.5 dB
1218	n/a	4.1	2.8	1.7	1.5	1.0	0.9	0.8	+/- 0.5 dB
1800	n/a	4.7	3.8	2.4	2.4	1.3	1.1	1.2	+/- 0.5 dB

Insertion loss (In / tap)

	OTTZ-4-8T	OTTZ-4-11	OTTZ-4-14	OTTZ-4-17	OTTZ-4-20	OTTZ-4-23	OTTZ-4-26	OTTZ-4-29	
Frequency	Typ	Typ	Typ	Typ	Typ	Typ	Typ	Typ	Max
5 - 10	8.5	13.0	15.5	18.5	20.0	23.5	26.0	29.0	
10 - 50	8.5	13.0	15.5	18.0	20.0	23.5	26.0	29.0	+/- 1.0 dB
50 - 105	8.5	13.0	15.5	18.0	20.0	23.5	26.0	29.0	+/- 1.0 dB
105 - 256	8.5	13.0	15.5	18.0	20.0	23.5	26.0	29.0	+/- 1.0 dB
256 - 862	9.0	13.0	15.5	18.5	20.2	23.5	26.0	29.0	+/- 1.0 dB
862 - 1006	9.5	13.0	15.5	18.5	20.5	23.5	26.0	29.0	+/- 1.0 dB
1006 - 1218	10.0	13.0	15.5	18.5	20.5	23.5	26.0	29.0	+/- 1.0 dB
1218 - 1800	10.5	13.5	16.0	19.0	20.5	23.0	26.0	28.5	+/- 1.5 dB

Electrical specifications

Parameter	Frequency	Min	Typ	Max	Units	Details	Notes
Frequency		5		1800	MHz		
Impedance			75		Ohm		
Power passing	In to out			15	A	30V - 90V @ 50 Hz	
Hum modulation		5 - 1800	60		dB	Tested at 10A	3
Shielding effectiveness		5 - 1800	105		dB	SCTE IPS-TP403	
Surge protection				6	kV		2
Return loss	All ports	5 - 10	12		dB		
		10 - 1800	16		dB		
Isolation	Out/tap	5 - 10	18		dB		
		10 - 50	20		dB		
		50 - 256	25		dB		
		256 - 1218	20		dB		
		1218 - 1800	18		dB		
	Tap/tap	5 - 10	16		dB		
		10 - 256	20		dB		
		256 - 1218	18		dB		
1218 - 1800		16		dB			

Environmental specifications

Parameter	Min	Max	Units	Details	
Temperature range	Operational	-40	+65	°C	-40 / +140 °F
	Storage	-40	+85	°C	-40 / +185 °F

Parameter	Standard	Severity
Salt Fog	ASTM B117	1000hr exposure
UV Degradation	ASTM G154	1000hr exposure
Port Sealing	SCTE-265-2021	IP68 - 1 meter for 1 week

Mechanical specifications

Parameter	Frequency	Details
Connectors	Input and output	ANSI/SCTE91 2009 KS female
	Tap ports	ANSI-SCTE 01 2015 F female
Housing material	Wide body	Die cast aluminum Tri-valent Chromate base, Polyurethane paint top layer

Notes

- 1 Specifications measured at room temperature 25°C
- 2 IEEE-C62.41, Combination Wave, Category B3 (rise time 1,2 µS/ fall time 50 µS). No degradation allowed.
- 3 5dB degradation allowed when measured at 15A
- 4 Specifications <10MHz are to be considered as typical values

Ordering information

Item number	Item code	Description
19014602	OTTZ-4-8T	OUTDOOR TAP TECHNETIX WIDE 4-WAY 8DB 1.8GHZ TERM
19014603	OTTZ-4-11	OUTDOOR TAP TECHNETIX WIDE 4-WAY 11DB 1.8GHZ
19014604	OTTZ-4-14	OUTDOOR TAP TECHNETIX WIDE 4-WAY 14DB 1.8GHZ
19014605	OTTZ-4-17	OUTDOOR TAP TECHNETIX WIDE 4 WAY 17DB 1.8GHZ
19014606	OTTZ-4-20	OUTDOOR TAP TECHNETIX WIDE 4-WAY 20DB 1.8GHZ
19014607	OTTZ-4-23	OUTDOOR TAP TECHNETIX WIDE 4-WAY 23DB 1.8GHZ
19014608	OTTZ-4-26	OUTDOOR TAP TECHNETIX WIDE 4-WAY 26DB 1.8GHZ
19014609	OTTZ-4-29	OUTDOOR TAP TECHNETIX WIDE 4-WAY 29DB 1.8GHZ

