

Technetix Traditional Outdoor Multitaps 8-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-8-11T | OTTZ-8-14 | OTTZ-8-17 | OTTZ-8-20 | OTTZ-8-23 | OTTZ-8-26 | OTTZ-8-29 | |
|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Frequency | Typ | Typ | Typ | Typ | Typ | Typ | Typ | Max |
| 5 | n/a | 3.0 | 1.8 | 1.3 | 0.9 | 0.5 | 0.3 | |
| 10 | n/a | 3.0 | 1.6 | 1.2 | 0.9 | 0.5 | 0.3 | +/- 0.5 dB |
| 50 | n/a | 3.0 | 1.6 | 1.2 | 0.9 | 0.5 | 0.4 | +/- 0.5 dB |
| 256 | n/a | 3.1 | 1.8 | 1.4 | 0.9 | 0.5 | 0.5 | +/- 0.5 dB |
| 862 | n/a | 4.1 | 2.4 | 2.0 | 1.2 | 0.8 | 0.6 | +/- 0.5 dB |
| 1006 | n/a | 4.4 | 2.5 | 2.2 | 1.4 | 0.9 | 0.7 | +/- 0.5 dB |
| 1218 | n/a | 4.6 | 2.7 | 2.4 | 1.6 | 1.0 | 0.8 | +/- 0.5 dB |
| 1800 | n/a | 5.0 | 3.5 | 2.8 | 2.5 | 1.4 | 1.3 | +/- 0.5 dB |

Insertion loss (In / tap)

| | OTTZ-8-11T | OTTZ-8-14 | OTTZ-8-17 | OTTZ-8-20 | OTTZ-8-23 | OTTZ-8-26 | OTTZ-8-29 | |
|-------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Frequency | Typ | Typ | Typ | Typ | Typ | Typ | Typ | Max |
| 5 - 10 | 11.0 | 15.5 | 18.0 | 20.5 | 23.5 | 27.0 | 29.5 | |
| 10 - 50 | 11.0 | 15.5 | 18.0 | 20.5 | 23.5 | 27.0 | 29.5 | +/- 1.0 dB |
| 50 - 105 | 11.0 | 15.5 | 18.0 | 20.5 | 23.5 | 27.0 | 29.5 | +/- 1.0 dB |
| 105 - 256 | 11.0 | 15.5 | 18.0 | 20.5 | 23.5 | 27.0 | 29.5 | +/- 1.0 dB |
| 256 - 862 | 11.0 | 15.5 | 18.5 | 20.5 | 24.2 | 27.5 | 29.5 | +/- 1.0 dB |
| 862 - 1006 | 11.5 | 15.5 | 18.5 | 20.5 | 24.5 | 27.5 | 29.5 | +/- 1.0 dB |
| 1006 - 1218 | 11.5 | 15.5 | 18.5 | 20.5 | 24.5 | 27.5 | 29.5 | +/- 1.0 dB |
| 1218 - 1800 | 12.5 | 17.0 | 19.5 | 20.5 | 24.5 | 27.5 | 29.5 | +/- 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 | 10 | | dB | | |
| | | 10 - 1800 | 16 | | dB | | |
| Isolation | Out/tap | 5 - 10 | 18 | | dB | | |
| | | 10 - 50 | 20 | | dB | | |
| | | 50 - 256 | 25 | | dB | | |
| | | 256 - 1218 | 20 | | dB | | |
| | Tap/tap | 1218 - 1800 | 18 | | dB | | |
| | | 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 μ S/ fall time 50 μ S). 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 |
|-------------|------------|---|
| 19014610 | OTTZ-8-11T | OUTDOOR TAP TECHNETIX WIDE 8-WAY 11DB 1.8GHZ TERM |
| 19014611 | OTTZ-8-14 | OUTDOOR TAP TECHNETIX WIDE 8-WAY 14DB 1.8GHZ |
| 19014612 | OTTZ-8-17 | OUTDOOR TAP TECHNETIX WIDE 8 WAY 17DB 1.8GHZ |
| 19014613 | OTTZ-8-20 | OUTDOOR TAP TECHNETIX WIDE 8-WAY 20DB 1.8GHZ |
| 19014614 | OTTZ-8-23 | OUTDOOR TAP TECHNETIX WIDE 8-WAY 23DB 1.8GHZ |
| 19014615 | OTTZ-8-26 | OUTDOOR TAP TECHNETIX WIDE 8-WAY 26DB 1.8GHZ |
| 19014616 | OTTZ-8-29 | OUTDOOR TAP TECHNETIX WIDE 8-WAY 29DB 1.8GHZ |

