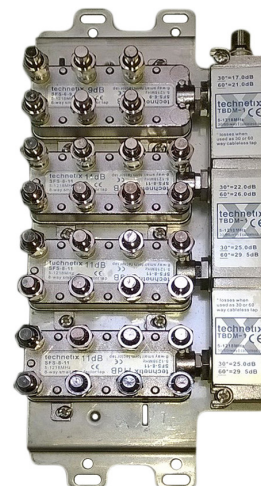


## MTB-30 Modular Tap Bank



- Compact modular size
- Expandable options
- Superior Performance
- Modem Safe™
- CPD Safe™
- Sidebar design
- Hot-swappable modules
- Stainless steel base plate
- Weather and corrosion resistant



### Overview

New range Modular Tap Banks by Technetix have been designed to offer the customer a flexible and robust product within the minimum footprint and with the minimum cabling. The mechanical design is completely reversible allowing two MTB-30s to be configured side by side with a standard two way splitter as a 60-way tap bank. The footprint of the 60-way may further be reduced with the use of two TB1-BP4 "Stacking Brackets" as below giving a total combined width of 200mm.

The 6-way and 8-way splitter units may be disconnected and replaced without signal interruption to other outputs. All "F" connectors are tin-nickel plated.

### Modem Safe™

Modem Safe is a highly effective surge protection solution for sensitive network and in-home CPE. Based on passive circuits, the technology does not rely on discharge tubes, extending the lifespan of the solution.

- Blocks high and low voltage pulses and unwanted DC voltages
- Prevents internal ferrites within the product from becoming magnetised (avoiding deterioration in the performance of CPE)
- Drives fewer reported faults
- Improves customer service
- Reduces truck rolls

### CPD Safe™

CPD (Common Path Distortion) is well known for producing signal interference on networks. It is caused by electrolytic corrosion or the oxidation of dissimilar metals when in close contact. CPD Safe technology protects against CPD.

- Removes a primary cause of CPD
- Reduces signal interference on the network
- Drives fewer reported faults
- Reduces truck rolls
- Improves customer service

### Specifications

Performance parameter	Details	MHz	Min.	Typ	Max
Insertion loss (dB)	Input to Output Bank 1	10-85			13
		85-550			14
		550-1006			15
		1006-1218			17
	Input to Output Bank 2	10-85			18
		85-550			19
		550-1006			20
		1006-1218			22
	Input to Output Bank 3	10-85			21
		85-550			22
		550-1006			23.5
		1006-1218			25
	Input to Output Bank 4	10-85			21
		85-550			22
		550-1006			23.5
		1006-1218			25
Isolation <sup>1</sup>	Input to Output	10 - 15	26		
		15 - 65	30		
		65 - 862	30		
		862 - 1218	20		
Return Loss	Input	10 - 15	18		
		15 - 65	18		
		65 - 1006	17		
		1006 - 1218	16		
	Output	10 - 15	18		
		15 - 65	18		
		65 - 1006	18		
		1006 - 1218	16		
Screening <sup>2</sup>	In and Out	10 - 30		95	85
		30 - 300		90	85
		300 - 470		85	80
		470 - 950		85	75
		950-1218		85	55
Group Delay <sup>5</sup>	Input to Output (ns)	10 - 15			140
		15 - 65			10
		65 - 1218			10
Surge Withstand	All Ports		1kV		
Intermodulation (dBc) <sup>3,4</sup>			105		
Equipment Approval				CE	

#### Remarks

1	F > 40 MHz -1.5 dB/oct, Min -18dB, IEC 60728-4 §4.6
2	Measured in accordance to EN 50083-2
3	Out to Out, two carriers 60 and 65 MHz @ 120 dBμV, after 10 pulses (25V/1.2μS rise time / 500μS duration) at Output ports.
4	Out to Out, two carriers 60 and 65 MHz @ 120 dBμV, after 1 pulse 1KV (1.2μS rise time / 50μS duration) at input.
5	dF=4.433MHz
6	Specifications Measured at Room Temperature.

#### Ordering information

Item Name	Article number
MTB-30	19008528

## Mechanical & environmental specifications

Performance Parameter/Feature	Standard	Details
<b>Port Sealing</b>		
F Connectors	EN 61169-24	
Water Immersion	BS EN 60529	IP67 1m, 30 Mins No water ingress or electrical performance degradation
Vibration	EN 60068-2-6	10Hz-150Hz, amplitude 10 m/s No electrical performance degradation
Drop Test	EN 60068-2-31	300 lift then drop all 4 sides onto concrete floor or metal plate No electrical performance degradation
Salt Mist Cyclic Kb	EN 60068-2-52	Severity 4 No dissimilar metal corrosion, No salt incursion
Damp Heat test Db	IEC-60068-2-30	2 cycles 40oC, Variant 2 No electrical performance degradation
Dry Heat test Bb	IEC-60068-2-2	65oC 72 hr No electrical performance degradation
Change of Temp Test Nb	IEC-60068-2-14	-40oC , +65oC ,RoC 1o pm, 3 hr dwell time, 5 cycles No electrical performance degradation

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