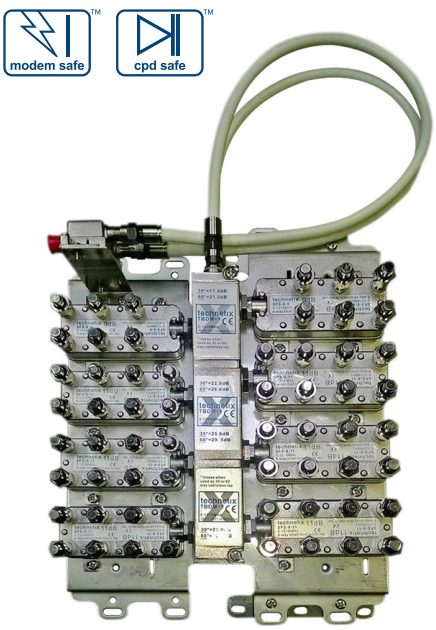
Multitaps

MTB-60 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 2-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 200 mm.

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

Technetix Modem Safe™

Technetix Modem Safe is a highly effective surge protection solution for sensitive network and in-home CPE. This technology is based on passive circuits and is not reliant on discharge tubes, therefore extending the lifespan of the solution.

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

Technetix CPD Safe™

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

- Removes a primary cause of CPD
- Reduces signal interference in the network
- Drives fewer reported faults, improving customer service and reducing truck rolls

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MTB-60 Modular Tap Bank device and performance specifications

Parameter			MTB-60			Units	Notes
			Min.	Typ.	Max.		
Insertion loss	Input to output bank 1	10-85 MHz			17	dB	
		85-550 MHz			18	dB	
		550-1006 MHz			19	dB	
		1006-1218 MHz			21	dB	
	Input to output bank 2	10-85 MHz			22	dB	
		85-550 MHz			23	dB	
		550-862 MHz			24	dB	
		862-1006 MHz			25	dB	
		1006-1218 MHz			26	dB	
	Input to output banks 3 & 4	10-85 MHz			25	dB	
		85-550 MHz			26	dB	
		550-862 MHz			27.5	dB	
		862-1006 MHz			28.5	dB	
		1006-1218 MHz			29.5	dB	
Isolation	Output to output	10-15 MHz	26			dB	1
		15-85 MHz	30			dB	1
		85-862 MHz	30			dB	1
		862-1218 MHz	20			dB	1
Return loss	Input	10-15 MHz	16			dB	
		15-65 MHz	16			dB	
		65-1006 MHz	16			dB	
		1006-1218 MHz	16			dB	
	Output	10-15 MHz	18			dB	
		15-65 MHz	18			dB	
		65-1006 MHz	18			dB	
		1006-1218 MHz	16			dB	
Screening	In and out	10-30 MHz		95	85	dB	2
		30-300 MHz		90	85	dB	2
		300-470 MHz		85	80	dB	2
		470-950 MHz		85	75	dB	2
		950-1006 MHz		85	55	dB	2
		1006-1218 MHz			55	dB	2
Group delay	Input to output (ns)	10-15 MHz			140	dB	5
		15-85 MHz			10	dB	5
		85-1006 MHz			10	dB	5
		1006-1218 MHz			10	dB	5
Surge withstand	All ports		1			kV	
Intermodulation			105			dBc	3, 4
Equipment approval				CE			

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Mechanical and environmental specifications

Parameter	Standard	MTB-60	Units	Notes
Port sealing				
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**	10-150 Hz, amplitude 10 m/s No electrical performance degradation.		
Drop test	**EN 60068-2-31**	30° 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 +40°C (+104°F), variant 2 No electrical performance degradation.		
Dry heat test Bb	**IEC-60068-2-2**	+65°C (+149°F), 72 hr No electrical performance degradation.		
Change of temp. test Nb	**IEC-60068-2-14**	-40°C (-40°F), +65°C (+149°F), RoC 1° pm, 3 hr dwell time, 5 cycles No electrical performance degradation.		

Notes

1	F >40 MHz -1.5 dB/oct, min -18 dB, 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 (25 V/1.2 µS rise time / 500 µS duration) at output ports.
4	Out to out, two carriers 60 and 65 MHz @ 120 dBµV, after 1 pulse 1 KV (1.2 µS rise time / 50 µS duration) at input.
5	dF = 4.433 MHz

Specifications measured at room temperature.

Order information

Item code	Model code	Description
19008529	**MTB-60**	CABLELESS TAP BANK - 60 PORT - 1.2 GHz

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