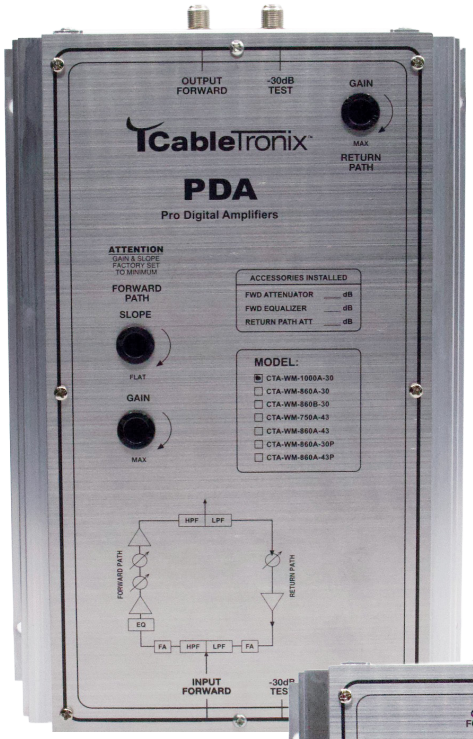
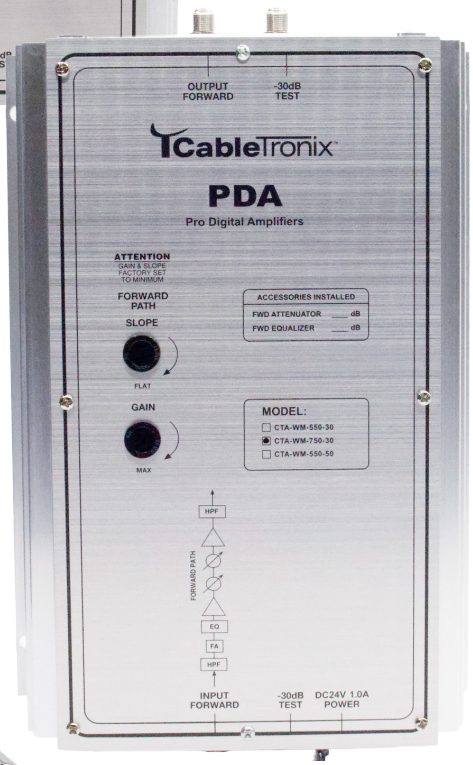
CTA-WM Series

Broadband Pro Distribution Amplifiers

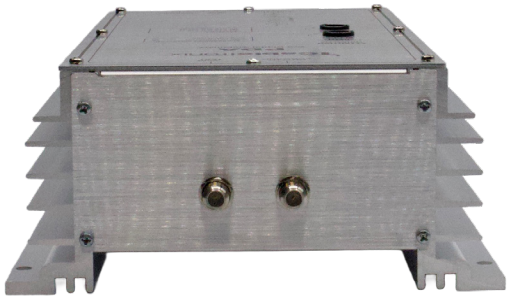
The CableTronix CTA-WM Series Indoor Broadband Distribution Amplifiers provide professional-grade amplification for CATV, SMATV, and commercial RF distribution systems. Designed for clean, reliable performance, these wall-mount amplifiers support a wide range of bandwidths—550 MHz to 1 GHz—making them suitable for digital, analog, and broadband channel plans.

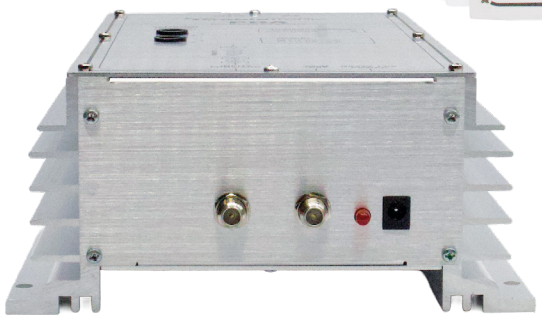
All models feature two-way capability with active return paths for DOCSIS and interactive services, plus adjustable gain and slope controls for precise signal balancing. Rugged aluminum housings, installer-friendly test ports, and optional plug-in equalizers and attenuators ensure dependable operation across a variety of installation environments.





- Broadband forward-path amplification (550–1000 MHz depending on model)
- Active return path (5–36 or 5–42 MHz) for DOCSIS and interactive services
- Adjustable forward gain and slope for flexible signal balancing
- Optional plug-in equalizer and attenuator modules
- –30 dB input/output test ports for fast diagnostics
- Rugged aluminum enclosure with wide operating temperature range
- Low-noise, low-distortion hybrid or power-doubling designs
- Ideal for CATV, SMATV, MDUs, hospitality networks, and commercial RF systems





Specifications

Push-Pull Models	CTA-WM-1000A-30	CTA-WM-860B-30	CTA-WM-860A-43	CTA-WM-860A-30	CTA-WM-750A-43	CTA-WM-1000A-30	CTA-WM-860B-30	CTA-WM-860A-43	CTA-WM-860A-30	CTA-WM-750A-43
Path	Forward Path					Return Path				
Freq Range	49-1000 MHz	54-860 MHz	49-860 MHz	49-860 MHz	49-750 MHz	5-36 MHz	5-42 MHz	5-36 MHz	5-36 MHz	5-36 MHz
Gain	32 dB MIN.	32 dB MIN.	43 dB MIN.	32 dB MIN.	43 dB MIN.	19 dB (MIN.)				
Slope Control	10 dB (MIN.)					-				
Gain Control	12 dB (MIN.)					**18 dB (MIN.)**				
Noise Figure	8.0 dB (MAX.) (Note.1)					6.0 dB (MAX.)				
Gain Flatness	± 1.0 dB (MAX.)					± 1.0 dB (MAX.)				
Return Loss (Input & Output)	15 dB (MIN.)					15 dB (MIN.)				
Test Port Level	-30±2.0 dB					-				
Composite Triple Beat (CTB)	-62 dB (Note 2).					-60 dB (Note.3)				
Cross Modulation (XM)	-60 dB (Note.2)					-60 dB (Note.3)				
Composite 2nd Order Beat (CSO)	-64 dB (Note 2).					-60 dB (Note.3)				
Power Supply (Adaptor)	Input: 100-240 VAC, 50/60Hz Output: 24 VDC/1A									
Impedance (All Ports)	75 ohms									
Connector (All Ports)	F Type female									
Operating Temperature	-4 – 140 °F (-20 ~ 60°C)									

Note:

1. Measurement at full gain with 0dB slope
2. 98 channels Vo=46 dBmv at 743.25MHz, flat output level across the band
3. 3 channels Vo=42 dBmv

Specifications			
Push-Pull Models	CTA-WM-550-30	CTA-WM-550-50	CTA-WM-750-30
Path	Forward Path		
Freq Range	47-550 MHz	47-550 MHz	47-750 MHz
Gain	32 dB MIN.	49 dB MIN.	32 dB MIN.
Slope Control	10 dB (MIN.)		
Gain Control	12 dB (MIN.)		
Noise Figure	8.0 dB (MAX.) (Note.1)		
Gain Flatness	± 1.0 dB (MAX.)		
Return Loss (Input & Output)	15 dB (MIN.)		
Test Port Level	-30±2.0 dB		
Composite Triple Beat (CTB)	-62 dB (Note 2).		
Cross Modulation (XM)	-60 dB (Note.2)		
Composite 2nd Order Beat (CSO)	-64 dB (Note 2).		
Power Supply (Adaptor)	Input: 100-240 VAC, 50/60Hz Output: 24 VDC/1A		
Impedance (All Ports)	75 ohms		
Connector (All Ports)	F Type female		
Operating Temperature	-4 – 140 °F (-20 ~ 60°C)		

Specifications				
Power-Doubling Model	CTA-WM-860A-43P	CTA-WM-860A-30P	CTA-WM-860A-43P	CTA-WM-860A-30P
Path	Forward Path		Return Path	
Freq Range	49-860 MHz		5-36 MHz	
Gain	43 dB (MIN.)	32 dB (MIN.)	19 dB (MIN.)	
Slope Control	10 dB (MIN.)		-	
Gain Control	12 dB (MIN.)		18 dB (MIN.)	
Noise Figure	8.0 dB (MAX.) (Note.1)		6.0 dB (MAX.) (Note.1)	
Gain Flatness	± 1.0 dB (MAX.)			
Return Loss (Input & Output)	15 dB (MIN.)			
Test Port Level	-30±2.0 dB		-	
Composite Triple Beat (CTB)	-64 dB (Note 2).		-60 dB (Note 2).	
Cross Modulation (XM)	-62 dB (Note.2)		-60 dB (Note 2).	
Composite 2nd Order Beat (CSO)	-66 dB (Note 2).		-60 dB (Note 2).	
Power Supply (Adaptor)	Input: 100-240 VAC, 50/60Hz Output: 24 VDC/1A			
Impedance (All Ports)	75 ohms			
Connector (All Ports)	F Type female			
Operating Temperature	-4 – 140 °F (-20 ~ 60°C)			

Note:
1. Measurement at full gain with 0dB slope
2. 98 channels Vo=46 dBmv at 743.25MHz, flat output level across the band
3. 3 channels Vo=42 dBmv