

# FMT12X042-AHH1A1N



Flex Max® FM902 Broadband Trunk Amplifier, 1.2 GHz GaN output (equal trunk & bridger output tilt), 42-54 MHz Bandpass split, 27 dB Upstream gain, RF Module only, 40-90 Vac Powering

- \*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.
- Supports 1.2 GHz Downstream and 204 MHz Upstream bandpass for DOCSIS® 3.1 migration
- Modular RF Electronics package with upgradable frequency split options
- Increased gain to allow drop in upgrades for ≥ 750 MHz spacing
- Mechanically compatible with legacy Flex Net 700/800/900 series and Flex Max 900 and 901 series housings
- Expanded return path bandwidth with support up to 204 MHz
- QAM and analog ADU options for automatic level control and gain hold in the event of pilot loss

## Product Classification

Regional Availability	Asia   Australia/New Zealand   EMEA   Latin America   North America
Product Type	RF amplifier
Product Series	FM902
Government Requirements	Build America Buy America (BABA) compliant*

## General Specifications

Technology	1.2 GHz GaN output
Housing	Standard (Full station)
Location of Manufacturing	Waived per BABA waiver for BEAD Program

## Dimensions

Width	271.78 mm   10.7 in
Depth	135.89 mm   5.35 in
Length	406.4 mm   16 in

## Electrical Specifications

Upstream Gain	27 dB
Bandpass Split	42/54 MHz

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Input Voltage Range, ac	40–90 V
Level Control	499.25 MHz ALC
Reference Slope	20.2 dB (54-1218 MHz)

## Ordering Tree

F	M	T	1	2	X	0	8	5	—	S	H	H	6	C	1	N
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Key	Technology	Key	Level Control	Key	Powering
FMT12	1.2 GHz GaN Output (Equal Trunk & Bridger Output tilt)	X	Manual Level Control (MLC)	1	None (RF Module Only)
		A	ALC with 499.25 MHz	6	2.3A, 90V, 50/60 Hz, High Efficiency
Key	Reference Slope	Q	609.00 MHz QAM ALC	Key	Housing
X	20.2 dB (54–1218 MHz)	S	711.00 MHz QAM ALC	A	None (RF Module Only)
				C	6-port Flex Max, -20 dB internal test points
Key	Bandpass Split	Key	Upstream Gain	Key	Housing Finish
042	42/54 MHz	H	27 dB	1	Standard
085	85/102 MHz			Key	Options
204	204/258 MHz	Key	Output Configuration	N	N/A
		H	Dedicated Trunk with two bridger outputs—user- configurable to four outputs		

## Environmental Specifications

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
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## Packaging and Weights

Weight, net	7.257 kg   16 lb
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## Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

