

FMB12X042-SHG6C1N



Flex Max® FM902 Broadband Bridger Amplifier, 1.2 GHz GaN output, 42-54 MHz Bandpass split, 27 dB Upstream gain, Full station, 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

FMB12X042-SHG6C1N

Input Voltage Range, ac	40–90 V
Level Control	711.00 MHz QAM ALC
Reference Slope	21.1 dB (54-1218 MHz)

Ordering Tree

F	M	B	1	2	X	0	8	5	—	S	H	G	6	C	1	N
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Key	Technology
FMB12	1.2 GHz GaN Output

Key	Reference Slope
X	21.1 dB (54–1218 MHz)

Key	Bandpass Split
042	42/54 MHz
085	85/102 MHz
204	204/258 MHz

Key	Level Control
X	Manual Level Control (MLC)
A	499.25 MHz ALC
Q	609.00 MHz QAM ALC
S	711.00 MHz QAM ALC

Key	Upstream Gain
H	27 dB

Key	Output Configuration
G	Two bridger outputs—user-configurable to four outputs

Key	Powering
1	None (RF Module Only)
6	2.3A, 90V, 50/60 Hz, High Efficiency

Key	Housing
A	None (RF Module Only)
C	6-port Flex Max, - 20 dB internal test points

Key	Housing Finish
1	Standard

Key	Options
N	N/A

Environmental Specifications

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
-----------------------	--------------------------------------

Packaging and Weights

Weight, net	7.257 kg 16 lb
-------------	------------------

Regulatory Compliance/Certifications

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

