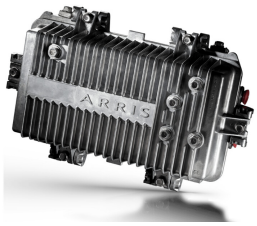
MB120-042-SL-XET



STARLINE® MB120 Broadband RF Amplifier, 1.2 GHz GaN output, 5-42 MHz/54-1218 MHz Bandpass split, 24 dB Upstream gain, Electronic module only, Powering option T

- *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 BLE™ amplifier housings
- Expand return path bandwidth with support up to 204 MHz
- Analog and QAM ADU options for automatic gain control (AGC). AGC mode will revert to gain hold mode 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	MB120
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

Technology	1.2 GHz GaN output
Housing	Electronic Module only
Location of Manufacturing	Waived per BABA waiver for BEAD Program

Dimensions

Width	243.84 mm | 9.6 in
Depth	139.7 mm | 5.5 in
Length	391.16 mm | 15.4 in

Electrical Specifications

Upstream Gain	24 dB
Bandpass Split	5-42 MHz / 54-1218 MHz

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Input Voltage Range, ac	Reserved for future use
Level Control	QADU-711.00/S
Reference Slope	16.1 dB Total (11.1 dB Cable + 5.0 dB Linear)

Ordering Tree

Key	Technology
120	1.2 GHz GaN Output

Key	Reference Slope
X	16.1 dB Cable (54–1218 MHz)
L	16.1 dB Total (11.1 dB Cable + 5.0 dB Linear)

Key	Housing
F	Standard (Full Station)
E	Electronic Package only

MB 120 — 085 — S L — H F X

Key	Bandpass Split
042	5 - 42 MHz/54–1218 MHz
065	5 - 65 MHz/85–1218 MHz
085	5 - 85 MHz/102–1218 MHz
204	5 - 204 MHz/258-1218 MHz

Key	Level Control
X	Manual Level Control (MLC)
A	ADU-499.25/S
Q	QADU-609.00/S
S	QADU-711.00/S

Key	Upstream Gain
X	24 dB
H	27 dB
8	24 dB preconfigured with 8 dB return input pad

Key	Reserved
X	Reserved for Future Use
T	Triple Output

NOTE: Not all combinations of options are valid. Contact your CommScope representative for assistance.

Environmental Specifications

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

Packaging and Weights

Weight, net	6.804 kg | 15 lb

Regulatory Compliance/Certifications

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

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