

BLE120-042-AL-HFX



BLE120 Broadband Line Extender Amplifier, 1.2 GHz GaN output w/38 dB gain, 5-42 MHz/54-1218 MHz Bandpass split, 27 dB Upstream gain, Standard housing (full station), Powering option X

- *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	BLE120
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

Technology	1.2 GHz GaN output w/38 dB gain
Housing	Standard (Full station)
Location of Manufacturing	Waived per BABA waiver for BEAD Program

Dimensions

Width	203.2 mm 8 in
Depth	119.38 mm 4.7 in
Length	269.24 mm 10.6 in

Electrical Specifications

Upstream Gain	27 dB
Bandpass Split	5-42 MHz / 54-1218 MHz

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Input Voltage Range, ac	38–90 V
Level Control	ADU-499.25/S
Reference Slope	10.4 dB Total (5.4 dB Cable + 5.0 dB Linear)

Ordering Tree



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)
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Packaging and Weights

Weight, net	3.266 kg 7.2 lb
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Regulatory Compliance/Certifications

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

