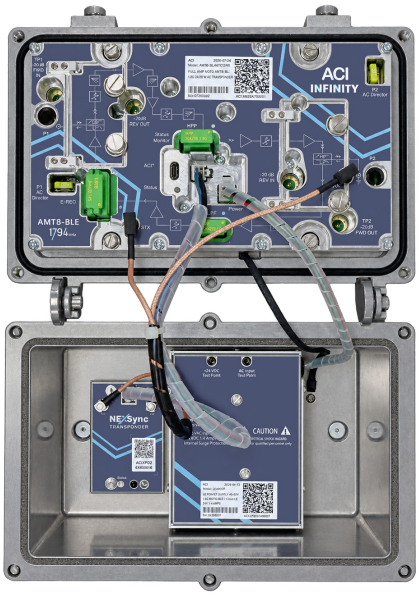
ACI INFINITY™ Moto AMT8-BL 1.8GHz Datasheet



INFINITY™ Moto AMT8-BL Complete Stations & RF Modules 1.8GHz for GI/Motorola® BLE Line Extender

The ACI Infinity™ Moto AMT8-BL 1.8GHz Line Extenders are designed to be drop-in replacement modules for the Motorola® Starline® BLE one output Line Extender housings. ACI also offers complete stations with new compatible die cast housings. The amplifier can be set up automatically in the field using ACI's advanced ACI+ App (Android/Apple iOS), or managed and controlled remotely via optional transponder.

Features

- 1.8G drop-in module / complete replacement for Motorola® Starline® 1GHz and 1.2GHz BLE Line Extender
- Supports 1.8GHz Downstream and up to 684 MHz Upstream operation for DOCSIS® 4.0 networks
- Android & Apple iOS setup applications
- Digital microprocessor automatically adjusts gain and levels for optimal system performace through various envornmental conditions
- 1.2G or 1.8G Operational Modes
- Easy field upgaradeable return path
- Automated setup
- Remote monitoring available

Downstream

Frequency Range, MHz	105 - 1794 258 - 1794 492 - 1794 834 - 1794
Flatness, dB	± 0.5 @ F_{Minfwd} to 1218 MHz ± 0.75 @ F_{Minfwd} to 1794 MHz
Operational Gain, dB	46 +1.0 / -0.0
Internal Gain and Slope adjustment	Electronic (Default Condition: 46 dB Gain @ 1794 MHz, 22.0 dB Tilt from 105–1794 MHz) 0.5 dB Step
Noise Figure, dB	10.0 @ F_{maxfwd} (Worst Case)
Test Points, dB	- 20 ± 0.75
Return Loss, dB	16 dB up to 160 MHz; 15 dB 160 MHz – 320 MHz; 14 dB 320 MHz - 1794 MHz
Hum Modulation, dBc	>62 @ F_{minfwd} to 1794 MHz

Upstream

Frequency Range, MHz	10 - 85 10 - 204 10 - 396 10 - 684
Flatness, dB	± 0.75
Operational Gain, dB	28 Min @ 085 Split 28 Min @ 204 Split 30 Min @ 396 Split 32 Min @ 684 Split
Internal Gain and Slope Adjustment	Electronic Control 0.5 dB Step
Noise Figure, dB	9.0 (Worst Case)
Test Points, dB	- 20 ± 0.75
Return Loss, dB	16 dB up to 160 MHz; 15 dB 160 MHz – 320 MHz; 14 dB 320 to 684 MHz
Hum Modulation, dBc	>62 @ 5 to 684 MHz

General

Operating Temperature Range	- 40° to + 60°C (- 40° to + 140°F)
Housing Dimensions, L x W x D	10.3 X 8.2 X 5.3 Inches, 26.0 X 20.8 X 13.4 Centimeters
Weight	10.8 Lbs., 4.9 kg (Complete Unit) 3.31 Lbs., 1.5 kg (Module)

Powering

AC Input Voltage Range, VAC	45 - 90
AC Input Current (typical)	0.85 A/31.0 W @ 45 V 0.54 A/30.6 W @ 90 V
AC Bypass Current	15 Amps

Rev C 10-20-2026 Printed in U.S.A.
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