

**Antennas to be used with the products:**

**BAT54-Rail Client  
BAT54-Rail Client FCC  
BAT54-Rail Single FCC**

FCCID: U99BAT54C and IC Code: 4019A-BAT54C.

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This document is to describe the antennas used with the models listed under FCCID: U99BAT54C and IC Code: 4019A-BAT54C.

Antenna Description	Comment
AirLancer Extender 0-18a AirLancer Extender 0-30 AirLancer Extender 0-360ag AirLancer Extender 0-70 AirLancer Extender 0-9a AirLancer Extender 0-D60a AirLancer Extender 0-D80g AirLancer Extender I-180 AirLancer Extender I-60AG BAT-ANT-8A BAT-ANT-8G BAT-ANT-N-12A BAT-ANT-N-14G BAT-ANT-N-23/9A BAT-ANT-N-6ABG BAT-ANT-TNC-10ADS BAT-ANT-TNC-8b/g DS BAT-ANT-TNC-B-D-085-01 BAT-ANT-TNC-B-D-085-02 BAT-ANT-N-5A-IP65 BAT-ANT-N-6ABG-IP65 BAT-ANT-N-9A-DS-IP65 BAT-ANT-N-LC-G-50m-IP65 BAT-ANT-N-LC-G-100m-IP65 BAT-ANT-N-6G-IP65 BAT-ANT-N-14G-IP23 BAT-ANT-N-8G-DS-IP65	<p>The models covered by FCCID: U99BAT54C and IC Code: 4019A-BAT54C are variants of the model BAT54-Rail (FCCID: U99BAT54R and IC Code: 4019A-BAT54R) and therefore using the same antennas.</p> <p>The BAT54-Rail does contain two identical radio modules and ethernet modules, whereas these components are not populated at BAT54-Client. The physical construction and radio parameters of both models are the same. See also table 1 in this document.</p> <p>Delta testing to cover these differences has been made, see test report number 1-0746-01-03/08 by Cetecom ICT services GmbH dated 11-December 2008.</p>

Table 1: Difference between BAT54-Rail and BAT54-Rail Client / BAT54-Rail Client FCC / BAT54-Rail Single FCC

(X = components are populated)

Model Name	Model used for antenna testing	Variant models of same construction but lesser HW components populated		
	BAT54-Rail	BAT54-Rail Client	BAT54-Rail Client FCC	BAT54-Rail Single FCC
FCC ID:	U99BAT54R	U99BAT54C	U99BAT54C	U99BAT54C
Canada Certification Number:	4019A-BAT54R	4019A-BAT54C	4019A-BAT54C	4019A-BAT54C
HW differences				
2,4 / 5 GHz WLAN Module 1 IEEE 802.11a/b/g/h/i	X	X	X	X
2,4 / 5 GHz WLAN Module 2 IEEE 802.11a/b/g/h/i	X			
Ethernet Interface 1	X	X	X	X
Ethernet Interface 2	X			
24 V Power	X	X	X	X
12 V Power	X	X	X	X
Power over Ethernet	X	X	X	X
Housing for DIN Rail mounting	X	X	X	X
SW differences:				
Access Point Functionality	Enabled	Disabled (client mode only)	Disabled (client mode only)	Enabled