

**Before the
Federal Communications Commission
Washington, DC 20554**

In the Matter of)	
)	
Kymeta Corporation Application for)	File No. SES-MOD-_____ - _____
Modification of Blanket License to)	Call Sign: E170070
Add 1,000 u8 Pro Terminals Operating)	
at 40 Watts Input Power)	

**APPLICATION FOR
MODIFICATION OF BLANKET LICENSE**

Pursuant to Section 25.117 of the Commission’s Rules, Kymeta Corporation (“Kymeta”) seeks modification of its blanket license for Call Sign E170070 to add 1,000 terminals operating at a maximum of 40 watts input power to the flange of the antenna (“u8 Pro Terminal”). On September 4, 2020, the Commission granted Kymeta a blanket license to add 10,000 second-generation (“u8 Commercial Terminal”) earth stations in motion (“ESIMs”) at a maximum input power of 16.2 watts.

Use of the u8 Pro Terminal will be restricted to government/military, public safety, maritime and enterprise purposes that will not be accessible to the general public. Customers will be educated and trained accordingly, and be contractually obligated to comply with the requisite deployment limitations and safety precautions. All u8 Pro Terminals will be installed by trained professionals. Caution labels will be applied to the bezel of all u8 Pro Terminals. Customers will be instructed to use additional indicative barriers, and as needed physical barriers, to ensure that the general public will not be able to enter any area where the RF exposure from the u8 Pro Terminals exceeds 1.0 mW/cm². Kymeta will provide training

materials to its customers to ensure that any employee or contractor operating the u8 Pro Terminals are instructed not to enter any area where the RF exposure exceeds 5 mW/cm².

Grant of the requested authority is consistent with Commission rules, policy and precedent, and will serve the public interest by enabling Kymeta to deploy its u8 Pro Terminals to meet the needs of a broader array of customers seeking broadband mobility service.

I. TECHNICAL PARAMETERS

This application for modification seeks authority to add 1,000 u8 Pro Terminals, operating with the following technical parameters (as specified on FCC Form 312):¹

E38: Total input power at antenna flange = 40.0 watts (maximum)

E40: Total EIRP for all carriers (dBW) = 51.1 dBW (maximum)

E41: Antenna Gain Transmit (dBi) = 35.1 dBi at 14.0 GHz

E48: Maximum EIRP per carrier (dBW): 51.1 dBW

E49: Maximum EIRP Density per carrier (dBW/4 kHz): 20.92

Kymeta's u8 Pro Terminal complies with the off-axis effective isotropic radiated power ("EIRP") power spectral density ("PSD") standards (the "off-axis mask") set forth in Section 25.218(f). Therefore, compliance with Section 25.209 is not required. The terminal automatically controls input power to maintain compliance with the off-axis mask.

¹ Kymeta will be using the same antenna already authorized by the Commission. As a result, Kymeta is not re-submitting Exhibit A, Compliance with Off-Axis Mask, or Exhibit B, Test Case Patterns Plotted Against the Relevant FCC Off-Axis PSD Masks, because there are no changes to these exhibits.

Kymeta submits as Exhibit C the RF Safety Analysis for operations at 40 watts input power.

The remote control for the earth stations will be located at Kymeta's headquarters, 12277 134th Court, Redmond, WA 98052, telephone 855-525-6638. The "stop buzzer" point of contact will be Victor Jimenez (Director, Network Operations); vjimenez@kymetacorp.com, support@kymetacorp.com; 855-525-6638.

II. CONCLUSION

Kymeta requests that the Commission expeditiously grant this application for modification of its blanket license.

Respectfully submitted,

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November 10, 2021

TECHNICAL CERTIFICATION

I, Ryan A. Stevenson, hereby certify that I am:

- the technically qualified person responsible for the preparation of the technical information contained in this Application for Modification;
- that I am familiar with Part 25 of the Commission's Rules; and
- that I have either prepared or reviewed the technical information submitted in the Amendment and found it to be complete and accurate to the best of my knowledge and belief.

Signed: /s/ Ryan A. Stevenson

Dated: November 10, 2021

Ryan A. Stevenson
Vice President and Chief Scientist
Kymeta Corporation