

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

In the Matter of	)	
	)	
Kymeta Corporation Application for Special	)	File No. SES-STA-2022 ____ - ____
Temporary Authority for Sixty (60) Days to	)	Call Sign: E170070
Test and Demonstrate Up to Five (5) u8com	)	
Terminals as Earth Stations Aboard Aircraft	)	
(ESAA)	)	

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY

Kymeta Corporation (“Kymeta”), pursuant to Section 25.120(b)(3) of the Commission’s Rules, 47 C.F.R. §25.120(b)(3), respectfully requests that the Commission renew its special temporary authority (“STA”) for an additional period of 60 days, beginning October 30, 2022, to test and demonstrate up to five (5) u8com terminals as earth stations aboard aircraft (“ESAA”) during the pendency of Kymeta’s application (File No. SES-MOD-20220720-00781) for a modification of its blanket authorization to add ESAA authority. Kymeta was previously granted an STA for a period of 60 days effective August 29, 2022. File No. SES-STA-20220720-00782. Kymeta already holds blanket authorization for its u8com antenna to operate as vehicle mounted earth stations (“VMES”), earth stations aboard vessels (“ESV”), and fixed earth stations with all GSO satellites on the Permitted Space Station List and to communicate with the OneWeb and Kepler NGSO constellations.

Kymeta will conduct operations under the STA on a non-interference basis only. Further, Kymeta acknowledges that grant of the STA, and operations under the STA, will be without prejudice to the Commission’s consideration of Kymeta’s application for modification of its blanket authorization. Testing and demonstration of the u8com terminal will be limited to U.S. airspace.

Grant of the requested authority is consistent with Commission rules, policy and precedent, and will serve the public interest by enabling Kymeta to test and demonstrate its u8com terminals for the provision of broadband mobility service to aeronautical customers.

Kymeta will operate pursuant to the same technical and operational parameters specified in its blanket authorization. Specifically, Kymeta will limit power into the transmitter to 16.2 watts. Kymeta's u8com terminal complies with the off-axis effective isotropically radiated power ("EIRP") power spectral density ("PSD") standards (the "off-axis mask") set forth in Section 25.218(f).

Kymeta requests that the Commission expeditiously grant this application for STA.

Respectfully submitted,

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October 18, 2022