



 Landic 2nd Bldg.,3-7-1, Nishi-shimbashi, Minato-ku, Tokyo, 105-0003, Japan

 jdi.rf.zz@j-display.com

 https://www.j-display.com/en/product_tech/mmwreflector.html



 <https://www.youtube.com/watch?v=0SIX03F9fw4&t=1s>



Company Introduction

Japan Display Inc. has a strong heritage in display technology and is now leveraging this expertise to develop next-generation communication solutions. Building decades of expertise in liquid crystal manufacturing, we are pioneering applications beyond displays, including advanced antennas for satellite communication. Our mission is to deliver innovative, cost-efficient technologies that enable seamless connectivity worldwide. Through continuous research and collaboration, Japan Display Inc. aims to contribute to the evolution of communication infrastructure and create new value for global markets.

Products Details

At MWC Barcelona 2026, Japan Display Inc. will present a groundbreaking phased-array antenna prototype for LEO satellite communication, utilizing liquid crystal technology for phase shifting. Current phased-array antennas rely on numerous semiconductor chips, driving up costs and complexity. Our approach replaces these components with liquid crystal elements, significantly reducing cost while maintaining high performance. The booth will feature a visual demonstration illustrating how liquid crystal enables beam steering, displayed through dynamic simulations. This innovation highlights our commitment to applying display expertise to communication devices, addressing the growing global demand for efficient, scalable solutions in satellite connectivity. Additionally, we will exhibit an enhanced version of the liquid crystal meta-surface reflector introduced at MWC 2025, showcasing the evolution of our technology.

