L3Harris is extending the capability of our Fixed Mesh Reflector (FMR) to frequencies up to V band. The FMR is based on our fully qualified and previously flown S-band antenna reflector with select improvements to meet V-band requirements. It is the first mesh reflector to operate through 50 gigahertz.

L3Harris meets the growing demand for very-high-throughput satellite missions with a dedicated V-band gateway antenna. Doing so frees up the Ka-band bandwidth to connect more users in more locations with increased capacity.

The FMR uses L3Harris' patented X-mesh surface to achieve reflectivity and cross-polarization performance equivalent to solid reflectors. L3Harris' precision mesh surfaces have more than 40 years of flight heritage on communication satellites.

L3Harris has engineered first-of-their-kind payloads that meet and exceed the needs of our customers for more than 50 years. We have earned our position as the most experienced unfurlable mesh reflector manufacturer in the world by continually pushing the boundaries of space antenna technology. Today, we are the number-one provider of large high-accuracy mesh reflectors, with more than 90 antennas on orbit.

PERFORMANCE PARAMETERS