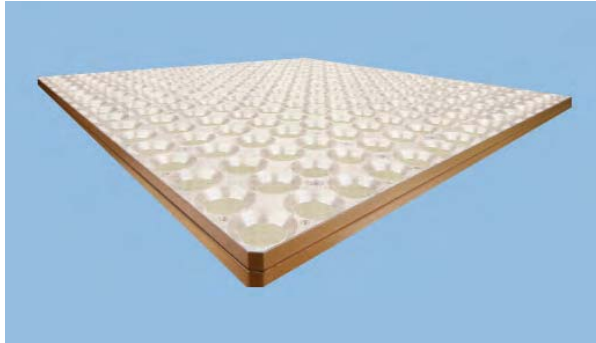




Ku-Band 16 x 16 Flat Panel Antenna



APPLICATIONS:

- Ku-Band range extension for MDAS
- Bi-directional capability upgrades for MDAS
- Standalone antenna for Ku-Band receive and/or transmit applications

The Ku-Band antenna panel shown in the picture provides a minimum gain of +31.5 dBic over the 14.4-15.35 GHz TCDL frequency band.

This design can be easily scaled to provide different aperture sizes and gain performance. Both symmetrical and asymmetrical configurations can be provided.

The TECOM 16 X 16 element Ku-Band Flat Panel Antenna (FPA) was developed as a field replacement for the currently-employed Mobile Directional Antenna System (MDAS) Ku-Band panel.

This new FPA design features a unique patent aperture and low-loss combiner network.

The Ku-Band antenna panel provides 5 dB more gain than the standard MDAS panel.

Specifications	
Frequency Range	14,400-15,350 MHz
Element Geometry	16 x 16
Gain	+31.5 dBic min.
Beamwidth	3° nominal
Polarization	RHCP
Axial Ratio	≤2.5 dB within the antenna pattern 3 dB beamwidth
Approximate Size	12" x 12" x 1"
Weight	4 lbs.
RF Connector	SMA
Power Handling	20 watts CW