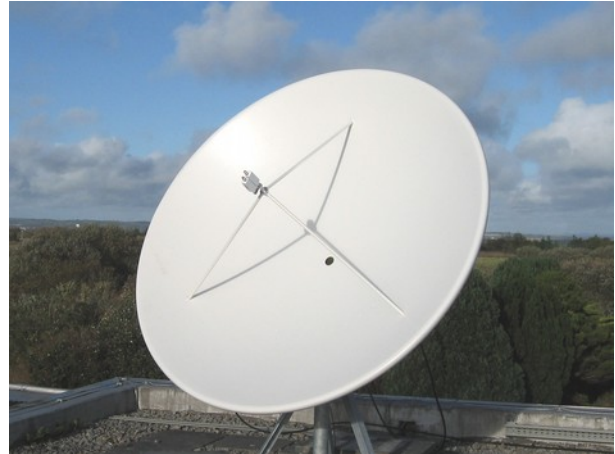


Ka Band Prime Focus Satcom Antennas



Until now, our Teleport customers who have been looking for Ka-band Circular polarised receive feeds have either had to use a high performance narrow band feed which makes repointing the antenna at different transponders with different frequencies problematic or use a poorly performing broadband feed. Not any more !

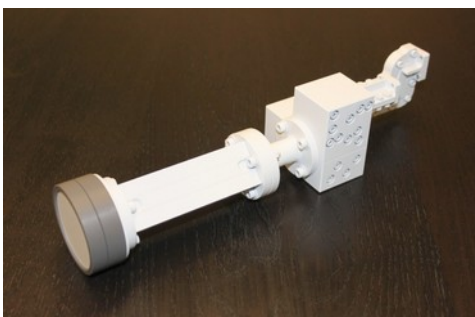
Now there is the new high performance broadband Ka receive feed from Elite Antennas. The feed has excellent characteristics across the whole 17 - 22 GHz receive band thanks to Elite's innovative OMT and polariser design.

Elite Antennas' Ka Band prime focus antennas available in diameters from 0.9m to 4.5m can be used with dual or single polarised feeds with either Circular or Linear polarisation over the full Rx band of 17 - 22 GHz.



Ka Rx band scalar dual polar feed

Transmit / Receive Ka Band Antennas



Ka TxRx band scalar feed

Elite has designed its own full band [Ka Tx/Rx feeds](#) which are available now. Both ports cover the whole range from 17.2 GHz to 31 GHz. This delivers a huge amount of flexibility allowing Elite to offer a variety of configurations including a 4-port feed from the same design. Both ports can be set as Receive ports or both as Transmit ports.

The ports on this feed can therefore be used with the ports as: Rx/Rx, Tx/Tx, Tx/Rx, Tx/Tx/Rx/Rx without any impact on the feed's performance.



Screw on, screw off radome

This flexibility means that the feed is ideally suitable for systems which need to communicate with multiple satellites and is suitable for satellite surveillance, monitoring, intercept and jamming applications.

Ka Tx/Rx band antennas are available in diameter with linear, circular and offset options. Manual and motorised polarisation switching is also available.

The Ka feed, OMT and polariser has been designed entirely in-house using the latest techniques to provide an optimal, modular design where the OMT and polariser can be swapped in and out depending on the particular customer requirements.

Full specifications of these antennas can be found on Elite's [website](#).

Please contact the company for a quote or further details sales@elite-antennas.com

Ka Receive Antennas

Part Number		Diameter (m)	Gain @ 17 GHz	Gain @ 19.5 GHz	Gain @ 22 GHz
<i>Circular</i>	<i>Linear</i>				
EPR09KCE	EPR09KLE	0.9	42.5	43.6	44.8
EPR12KCE	EPR12KLE	1.2	44.5	45.7	46.7
EPR15KCE	EPR15KLE	1.5	46.3	47.6	48.6
EPR18KCE	EPR18KLE	1.8	48.6	49.8	51.0
EPR21KCE	EPR21KLE	2.1	49.4	50.6	51.7
EPR24KCE	EPR24KLE	2.4	50.7	51.9	53.0
EPR30KCE	EPR30KLE	3.0	52.3	53.5	54.5
EPR37KCE	EPR37KLE	3.7	53.8	55.0	56.1
EPR45KCE	EPR45KLE	4.5	55.8	57.0	58.1

Please note: all Ka band Rx antennas are supplied with a wide band OMT to provide Dual Polarised operation as standard. Other manufacturers often charge extra for DP operation.

Antennas come with a hard wearing EI/Az head and stand (mount) as standard. Other mounts are available such as non penetrating, A frame, polar (both manual or motorised) or fully motorised with a suitable controller. Please contact the company for further information.

If variations on these items are required for your project, Elite is more than happy to offer its design and engineering services. The company offers a fast, flexible range of solutions to meet the vast majority of prime focus and offset applications.

Elite design & manufacture a wide variety of L, C, X, Ku, & Ka band satcom antennas for high-end customers including defence agencies, commercial broadcast networks, systems integrators and research agencies.

Please contact us for a quote or a technical proposal at sales@elite-antennas.com or call us on **+44 (0) 1568 612050**



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