

# KuCast

## Stelios - Ku-band Microterminal for Multicasting

### Start-up Initiative

*"We believe the micro-terminal opens up exciting new markets and opportunities for satellite multicasting and can make use of older satellites in inclined orbits."*  
Kevin Hodson, Director, Delta Communication Ltd.



#### Prime Contractor:

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#### Project Partners:

dB Technology Ltd. (United Kingdom)

#### Profile:

The project is developing a Ku-band micro-terminal for the reception of satellite multicast services. The micro-terminal, which has an antenna aperture of about 400 cm<sup>2</sup>, combines spread-spectrum modulation and forward error coding with the use of near-end-of-life satellites, thereby allowing cost-effective transmission at medium data rates. The terminals can be used in a wide range of static, mobile and portable environments.

One proposed application is a service that supports IP multicasting for dynamic advertising using video clips as well as information services for the transport industry. Components of the proposed system are a web server, a carousel processor, a hub station and any number of micro-terminals linked to intelligent plasma-screen displays to play out the video clips or text-only displays for simpler information. Using content entered either from CD or over the Internet, the web server generates a carousel of clips or text information and transmits them to the micro-terminal in advance of their play-out times according to the required schedule.

With its integrated antenna, LNB and demodulator that is connected directly to a LAN with Ethernet output, the micro-terminal lies at the heart of the system and enables installation of receivers in locations where larger antennas would be impractical. The micro-terminal is easy to point and can be set-up via its own built-in web server.

The project consortium is working closely with SES Astra based in Luxembourg on the ideas behind the current initiative and has formed a new company called KuCast Ltd. to exploit the commercial opportunities of the micro-terminal.