

# TIOS<sup>+</sup>

The Three-in-One-Solution – TIOS<sup>+</sup>  
Now available for Ka-band



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Lufthansa Technik's Two-In-One-Solution (TIOS) and Three-In-One-Solution (TIOS<sup>+</sup>) are tail mounted solutions for BBJ 1, BBJ 2, soon BBJ 3 and subsequently BBJ MAX. Now, TIOS<sup>+</sup> can also accommodate Ka-band frequency antennas. At present, the Honeywell MCS-8000 system and the Viasat Global Aero Terminal 5510 have been integrated. These antennas can either be installed standalone or in combination with other Ku/L-band antennas. As an option, a forward looking HD camera can be integrated. The TIOS<sup>+</sup> Ka installations will be covered by STC's held by Lufthansa Technik.

### Upgrade package Ku/L to Ka

For customers who already have a conventional TIOS installation for Ku/L-band and wish to upgrade their aircraft to the Ka-band technology (TIOS<sup>+</sup>), Lufthansa Technik has developed a one-stop-shop solution. This upgrade kit can be installed at the completion center of your choice.

It consists of the parts needed for the upgrade from TIOS Ku/L to a Ka-band installation. The costs for the installation of the TIOS<sup>+</sup> Ka upgrade package is significantly lower compared to a new TIOS<sup>+</sup> or a fuselage mounted installation.

### TIOS Ku/L still available

TIOS Ku/L will remain in the market. A wide variety of antenna systems are covered by STC's, held by Lufthansa Technik: e.g. AMT-700, TW500, VR-12T. It is also possible to install a forward looking HD camera as an optional feature.

### TIOS<sup>+</sup> saves space and weight

The aerodynamic design and the tailmount installation causes less drag and noise compared to a fuselage mounted solution. Operators can benefit by saving money on the installation and operation of the aircraft.



### Customer advantages

- Depending on the scope of the installation, up to 100 kg weight can be saved
- Saves space
- Saves power
- Reduces operational costs
- Less drag
- Positive effect on center of gravity (CG)

### Standard TIOS specifications

Radome	
Width	0.325 m
Depth	1.905 m
Height	0.454 m
Weight	33 kg (empty incl. equipment rack)

### For more information

Lufthansa Technik AG  
Original Equipment Innovation – OEI  
Phone +49-40-5070-2665  
oei@lht.dlh.de  
www.lufthansa-technik.com/tios

Original Equipment Innovation – OEI by



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