



TIOS⁺

The Three-In-One-Solution
for Ka-, L- and Ku-band

Lufthansa Technik's Three-In-One-Solution (TIOS⁺) is a tailmount radome for 737-700, 737-800, 737-8 and soon to come 737-7 and 737-9. TIOS⁺ accommodates Ka, L-, Ku-band frequency antennas and can either be installed standalone or in combination with other antennas. As an option, a forward-looking HD camera can be integrated. The installations will be covered by STC's held by Lufthansa Technik.

For customers who already have a conventional TIOS installation and wish to upgrade their aircraft to the Ka- or the most recent Ku-band technology, Lufthansa Technik has developed a one-stop-shop solution. This upgrade kit can be installed at the completion center of your choice and consists of the parts needed for the upgrade. The costs for the installation of the upgrade package are significantly lower compared to a new TIOS⁺ or a fuselage-mounted installation.

Benefits

Up to 100 kg weight can be saved

Saves space and weight

Less noise

Reduces operational costs

Less drag

Positive effect on center of gravity (CG)



Lufthansa Technik

TIOS+ saves space and weight

The aerodynamic design and the tail-mounted 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. With its design TIOS+ fits perfectly into the elegant and clean appearance of any aircraft.



TIOS+ Capabilities and Roadmap:

Antennas and Cameras

	Ka/L-Band MCS800/AMT-700	KA/Ku-Band Live TV MCS800/TW500	Ka/Ku-Band Live TV MCS8000/DBA1160	Ku-Band KuSAT-200	Ku-Band Plane Simple antenna	HD Camera AVS900	HD Camera CAMHD-T	HD Camera AVS720
BBJ1	■	■	■	■	■	■	■	■
BBJ2	■	■	■	■	■	■	■	■
737-700/800	■	■	■	■	■	■	■	■
737-7	2024	2024	2024	2024	2024	2024	2024	2024
737-8	■		■	■	■	■	■	■
737-9	2023	2023	2023	2023	2023	2023	2023	2023

TIOS+ Capabilities and Roadmap:

Supplemental Type Certificates

	EASA/LBA STC	FAA (V)STC	CAAC (V)STC
BBJ1	10060445 (Ka/Ku/L-Band)	ST01340NY (ku/L) Validation Approval letter 10060445 (Ka/Ku/L)	VSTC0546 (Ku/L/Ka)
BBJ2	10060445 (Ka/Ku/L-Band)	ST01340NY (ku/L) Validation Approval letter 10060445 (Ka/Ku/L)	VSTC0546 (Ku/L/Ka)
737-700/800	10060445 (Ka/Ku/L-Band)	ST01340NY (ku/L) Validation Approval letter 10060445 (Ka/Ku/L)	VSTC0546 (Ku/L/Ka)
737-7	2023	2023	
737-8	10072048 (Ka/Ku/L)	ST04447NY (Ka/Ku/L)	
737-9	2023	2023	

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