

UWB Anchor-D6 User Manual

Manufacturer	Cloud Network Technology Singapore Pte. Ltd
Device Name	UWB Anchor-D6
Brand	Cloud Network Technology Singapore Pte. Ltd.
Model Number	UWB Anchor-D6

System Structure and Principle Description:

UWB Anchor-D6 is a device used in positioning systems to measure distances and provide reference locations. The UWB Anchor-D6 primarily consists of a UWB chip (with a built-in MCU) and an SBC (with a built-in CAN transceiver). The SBC is responsible for power distribution and management for the entire system, as well as handling the reception and transmission of CAN data. The UWB chip is responsible for conducting UWB communication with the Key Fob and processing the transmitted and received data.

UWB Anchors are installed at four locations on the vehicle: front left, front right, rear left, and rear right. Using technologies such as TOF (Time of Flight), UWB Anchor-D6 measures the distance to the Key Fob. After obtaining the distance to the Key Fob and other relative data, the UWB Anchors transmit the information to the CAN bus through the MCU, which then relays it back to the vehicle's FD ECU.

Notes:

FCC Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Federal Communications Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Statements:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

UWB devices may not be employed for the operation of toys. Operation onboard an aircraft, a ship or a satellite is prohibited.

This equipment may only be operated indoors. Operation outdoors is in violation of 47 U.S.C. 301 and could subject the operator to serious legal penalties.

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