

LotTrack DisTag G4 – Dataheet – Technical Specification

Types	
DisTag G4 Types with UWB	Types • 01 • 05 • 06 
DisTag G4 Types with Ultrasound	Types: • 02 • 03 • 04 
Wireless Communication Overview	
Technology	• Passive RFID LF to interact with a LotTrack LoadPort Identifier/ Doorway Identifier. • Active RFID UHF to transfer data to the LotTrack Antenna Infrastructure. • Active UWB to receive and send radio UWB signals for localization. • Passive infrared (IR) to receive data from a LotTrack LoadPort Identifier. • Passive ultrasonic (US) to receive ultrasonic signals for localization.
Communication LF (receive only)	
Frequency	125 kHz
Antenna Type	3D integrated LF receiver coils (x, y z)
Modulation	7,8 kbit/s
Communication UHF	
Frequency band Europe	867.2 – 869.85 MHz
Frequency band USA	919.2 – 920.8 MHz
Transmit Output Power	< 1 mW
Antenna Type	omnidirectional
Modulation	115.2 Kbit/s, GFSK, 64 kHz Deviation; bi-direcitonal
Communication UWB	
Frequency	6.5 GHz (center frequency) 6.2400 – 6.7392 GHz (Range)
Transmit Channel Power	< -17 dBm/500MHz
Antenna Type	omnidirectional
Communication infrared (IR) (receive only)	
Receiver Type	Infrared light

Communication ultrasonic (US) (receive only)	For Types with ultrasonic (US)
Frequency	39 kHz to 41 kHz
Receiver Type	Ultrasonic
Display	
Display Type	MIP / extremely low power consumption/ ultra high resolution
Capability	graphic
Display Resolution	536 x 336 (179 dpi)
Display Size	80.3 mm (3.16in.)
Display Update Rate	Full display < 2s
Energy	
Battery	2 AA Li / SOCl ₂ cells (exchangeable)
Overall Voltage/ Capacity	3.6V / 5'000mAh nominal
Environmental	
Operating temperature	10°C ... +40°C
Storage temperature	0°C ... +60°C
Dimensions	
LxWxH	94 x 62 x 21.5 mm
Material	ABS antistatic
Weight	approx. 100g
Mounting	different mounting solutions resp. back covers for each wafer-box type

Remarks:

- The DisTag G4 does support simultaneous transmission for the communication via UHF and UWB.
- The integrated UWB module (FCC ID: 2AQ33-DWM1001) features a Bluetooth Low Energy (BLE) microprocessor. The BLE function is deactivated by the software and is not used in the DisTag G4.