



## LotTrack DisTag G4 – Dataheet – Technical Specification

Types	
DisTag G4 Types with UWB	Types <ul style="list-style-type: none"> <li>• 01</li> <li>• 05</li> <li>• 06</li> </ul> 
DisTag G4 Types with Ultrasound	Types: <ul style="list-style-type: none"> <li>• 02</li> <li>• 03</li> <li>• 04</li> </ul> 
Wireless Communication Overview	
Technology	<ul style="list-style-type: none"> <li>• Passive RFID LF to interact with a LotTrack LoadPort Identifier/ Doorway Identifier.</li> <li>• Active RFID UHF to transfer data to the LotTrack Antenna Infrastructure.</li> <li>• Active UWB to receive and send radio UWB signals for localization.</li> <li>• Passive infrared (IR) to receive data from a LotTrack LoadPort Identifier.</li> <li>• Passive ultrasonic (US) to receive ultrasonic signals for localization.</li> </ul>
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

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