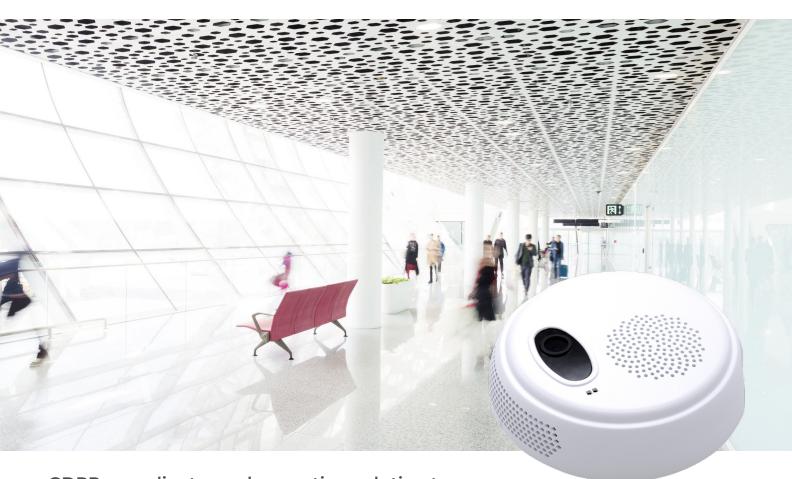


PoE model and LoRa model SPECIFICATION SHEET



# GDPR compliant people counting solution to extract greater value from your retail operations, smart building or office

Terabee People Counting L-XL is designed for people counting in large entrances and corridors, using the latest Time-of-Flight technology for greater reliability. It is GDPR compliant by design, providing accurate people counting data by monitoring the number of people who enter or exit doorways or corridors. The solution encompasses an IoT hardware device with embedded counting software to enable powerful analytics services. Two product variations allow transmission of the data via Power over Ethernet or LoRaWAN.

#### **Key features**

- GDPR compliant by design
- 3D depth people counting sensor
- Multi-device support for wide door counting
- Easy to install and configure via Web GUI
- Effective in low light conditions
- Two status LEDs for easy troubleshooting
- Remote or local firmware updates
- Remote configuration via Device management services (PoE model) or via LoRa downlink commands (LoRa model)
- Data transmission via Ethernet or LoRaWAN
- Powerful people counting algorithm with 98% accuracy



PoE model and LoRa model SPECIFICATION SHEET

# **Applications**



Occupancy monitoring

Smart offices

Space and facility optimization



HVAC systems integration

Energy savings

Facility management

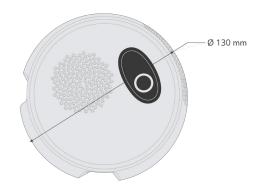


Staff presence optimization

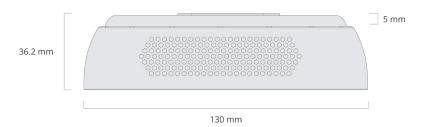
People flow

Public spaces and retail

#### **Dimensions**











PoE model and LoRa model SPECIFICATION SHEET

# **Technical specifications**

Product code	TB-PCL-XL						
Performances	PoE model LoRa model						
Technology	Infrared Time-of	-Flight depth sensor					
Field of View	74° x 57°						
Coverage area dimensions	1.50 x 1.10 m @ 2.40 m high with one device						
Multi-devices for wide passageways	Yes. Up to 5 devices	Yes. Up to 5 devices through Ethernet cables					
Installation height range		m up to 4.0 m					
Use environment	Indoor						
Counting accuracy	98%(1)						
People counting data communication	Real-time or at predefined time intervals	Predefined time intervals (min. of 1 minute)					
Electronics	PoE model	LoRa model					
Power source	RJ45 (PoE IEEE 802.3af)	Micro-USB (minimum 5 V - 2.5 A)					
Power consumption	10 W average	10 W average (min. recommended 12.5 W)					
LED indicators	Tw	Two LEDs					
Initialization time		ox. 1 min					
Mechanics	PoE model	LoRa model					
Dimensions	Ø 130.0 m	Ø 130.0 mm x 36.2 mm					
Weight	220 g						
Housing material	PU 8150	ABS PA-557					
Color	White and Black (extra colors on demand)						
Operating temperature	0° to 35°C						
Storage temperature		to 60°C					
Installation	On-ceiling mounting with provided mounting plate Optional: Terabee Recess Mounting Kit						
Networking	PoE model	LoRa model					
Communication interface	Wi-Fi Access Point for configuration and upgrade. LoRaWAN (1.0.3, Classe A) for of transmission. Gigabit Ethernet (2)						
Set up	Web GUI embe	dded on the device					
Ethernet communication	PoE model	LoRa model					
Recommended cabling	Cat 6 or later						
Addressing	DHCP	, Static IP					
Device hostname		erial_number>					
Data protocols	HTTP/HTTPS	S, MQTT/MQTTS					
Outbound traffic required on port		53, 80/443, 1883/8883, 1194					
Domain whitelisting		abee.com					
LoRa communication	PoE model	LoRa model					
Supported LoRaWan frequencies	N/A	EU 863-870 MHz, US 902-928 MHz					
LoRaWAN activation methods	N/A	OTAA, ABP					
Antenna specification	N/A	'+0.8 dBi, VSWR ≤ 2					
Remote device configuration	N/A	LoRa downlink commands					
Wi-Fi Access Point communication	PoE model	LoRa model					
Device hostname	N/A	terabee- <serial_number></serial_number>					
Services	PoE model	LoRa model					
Extended warranty	1-Year a	and 2-Years					
Terabee loT platform (for data visualization)	Yes, optional	Not available through LoRa, possible through Ethernet					
Terabee Device management services	Yes, optional	Not available through LoRa, possible through Ethernet					
Data hosting (when using Terabee IoT platform)	Cloud hosting (Datacenter in Amsterdam, Europe)  Data storage for up to 2 years						
Conformity	PoE model	LoRa model					
Reference standard	CE, FCC, RoHS	CE, FCC, RoHS, UKCA					

<sup>(1)</sup> Counting accuracy is assessed on the total number of entry and exit counts in representative conditions. In very diverse environments, this value may change. (2) On-demand, multi-device configuration or connection to Terabee services.



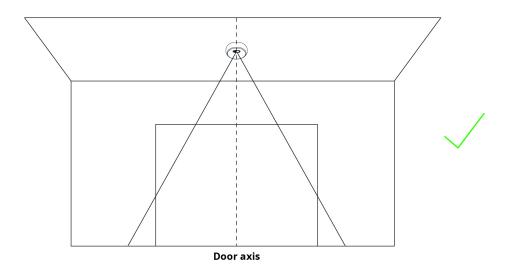
PoE model and LoRa model SPECIFICATION SHEET

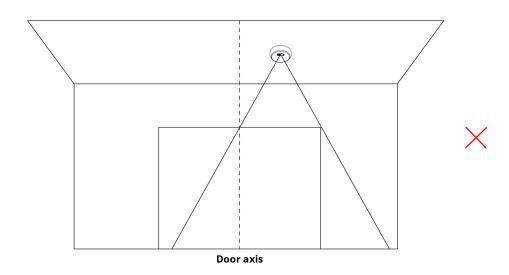
# Single-device installation

Terabee People Counting L-XL installs like a household smoke alarm. It needs to be placed centrally above doors and corridors and 30 cm minimum from the nearest vertical wall.

The monitored floor area depends on the installation height:

Installation height (m)	Monitored area (m x m)		
2.40 (min)	1.50 x 1.10		
3.20 (avg.)	2.30 x 1.70		
4.00 (max)	3.40 x 2.55		







PoE model and LoRa model SPECIFICATION SHEET

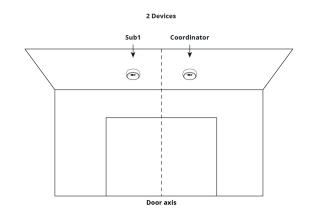
#### Multi-device installation

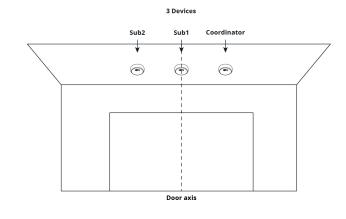
Up to five Terabee People Counting L-XL devices can be installed together to cover wider entrances and passageways (through Ethernet cables for LoRa model). One device acts as the coordinator and the others as subordinates.

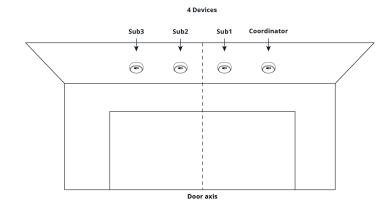
Installation height (m)	Max distance between devices (m)	Door coverage				
		1 device	2 devices	3 devices	4 devices	5 devices
2.40	0.80	1.50	2.30	3.10	3.90	4.70
2.50	0.90	1.55	2.45	3.35	4.25	5.15
2.60	1.00	1.60	2.60	3.60	4.60	5.60
2.70	1.10	1.70	2.80	3.90	5.00	6.10
2.80	1.20	1.80	3.00	4.20	5.40	6.60
2.90	1.35	1.90	3.25	4.60	5.95	7.30
3.00	1.50	2.10	3.60	5.10	6.60	8.10
3.10	1.65	2.20	3.85	5.50	7.15	8.80
3.20	1.80	2.30	4.10	5.90	7.70	9.50
3.30	1.95	2.40	4.35	6.30	8.25	10.20
3.40	2.10	2.50	4.60	6.70	8.80	10.90
3.50	2.25	2.60	4.85	7.10	9.35	11.60
3.60	2.40	2.75	5.15	7.55	9.95	12.35
3.70	2.55	2.90	5.45	8.00	10.55	13.10
3.80	2.70	3.05	5.75	8.45	11.15	13.85
3.90	3.85	3.20	6.05	8.90	11.75	14.60
4.00	3.00	3.40	6.40	9.40	12.40	15.40

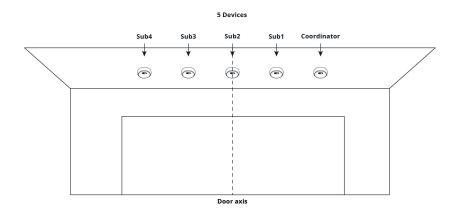


PoE model and LoRa model SPECIFICATION SHEET











PoE model and LoRa model SPECIFICATION SHEET

#### Time-of-Flight advantages

By using active Time-of-Flight technology to sense depth, the Terabee People Counting L-XL collects non-intrusive depth image data, meaning that personal identity can never be captured. And, since the device does not require ambient light for optimal performance, it is suitable for applications in low light without losing accuracy.



#### Any questions? Contact us today!

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