

TEST REPORT

Report Number. :	90628-24-72-24-PP002	
Date of issue :	Aug. 28,2024	
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Applicant's name :	Teleco Automation S.r.l	
Address :	Via dell' Artigianato, 16, 31014 Colle Umberto, Treviso, Italy	
Manufacturer's name :	Teleco Automation S.r.l	
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Factory's name :	Teleco Automation S.r.l	
Address :	Via dell' Artigianato, 16, 31014 Colle Umberto, Treviso, Italy	
Standard(s) :	FCC 1.1310: §1.1307(b)	
Test item description..... :	BRIDGE	
Trade Mark :		
Model/Type reference :	BST11	
FCC ID :	P59BST11	
Date of receipt of test item :	Jun. 21. 2024	
Date (s) of performance of test:	Jun. 22. 2024 to Aug. 27.2024	
Summary of Test Results :	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		
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Modified History

Report No.	Revision Date	Summary
90628-24-72-24-PP002	Aug. 28,2024	Original Report

1. EUT Specification

Product:	BRIDGE
Model Number:	BST11
Power supply:	☒ : DC 24V
Modulation:	FSK
Frequency Range:	916 MHz
Max Transmit Power:	97.61 dBuV/m
Antenna Gain:	1 dBi
Antenna:	Wire Antenna
Temperature Range:	-10°C ~ +40°C

2. Test Requirement

RF EXPOSURE EVALUATION

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

$EIRP = E_{Meas} + 20 \log(d_{meas}) - 104.7$

EIRP is the equivalent isotropically radiated power, in dBm

E_{meas} is the field strength of the emission at the measurement distance, in dBuV/m

d_{meas} is the measurement distance, in m

RF Exposure Information: The radiated output power of this device meets the limits of FCC/IC radio frequency exposure limits. This device should be operated with a minimum separation distance of 20cm (8 inches) between the equipment and a person's body.

3. Measurement Result

Antenna gain: 1 dBi

Channel Freq. (MHz)	Field strength (dBuV/m)	EIRP (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm ²)	Power density Limits (mW/cm ²)
916	97.61	-9.37	±1	-8.37	1.15	0.000036	1

According to KDB 447498 D01 General RF Exposure Guidance v06, Therefore the worst-case situation is 0.000036, which is less than “1”,
This confirmed that the device comply with FCC 1.1310 MPE limit.

THE END