

RAPPORTO DI PROVA

TEST REPORT

Ref. N.	TSupPhotos_FCC181512-0	Data Emissione /Issue Date:	21/07/2022	Pagine / Pages:	8
Scopo delle prove Test object	Prove di tipo in accordo alla Norme Type test according to Standards 47 CFR FCC part 15 - Subpart C - §15.247				
Richiedente Applicant	Paradox Engineering SA Via Passeggiata 7 – 6883 Novazzano – CH Tel.: +41912330100				
Marchio commerciale Trade mark					
Fabbricante Manufacturer	MinabeaMitsumi Inc. 3-9-6 Mita, Minato-ku, Tokyo 108-8330 Tel.: 81-3-6758-6711				
Prodotto Product	Sub 1-GHz IPv6/6LoWPAN Hardware radio device, compliant within NEMA standard, that operates as: Smart Lighting Node and Gateway for other Nodes				
Modello Model	NDLM007US-1				
Identificativo FCC FCC ID	2AKPQNDLM007				
Data ricevimento campioni Date of test samples receipt	09/05/2022				
Campioni verificati No. of tested samples	1 – Sampled by the applicant				
Data verifiche Testing date	From 26/05/2022 to 08/06/2022				
Sito di prova Testing site	PRSLAB S.r.l. Unipersonale - Via Campagna 92 - 22020 Faloppio - Como - Italy				
Identificativo FCC del sito di prova FCC designation number	IT0012				
Esito delle valutazioni Assessment results	CONFORME / COMPLIANT				
Verifiche effettuate da Verifications carried out by	Daniele AOSANI Tecnico Laboratorio Laboratory Engineer				
Approvato Approved by	Riccardo PFEIFFER Responsabile Laboratorio Laboratory Manager				

I risultati delle prove riportati nel presente rapporto di prova si riferiscono solo ai campioni esaminati.

The test results reported in this test report shall refer only to the samples tested.

Il campione è stato fornito dal cliente ed i risultati si riferiscono al campione così come ricevuto

The sample has been provided by the customer and the results apply to the sample as received

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0. RELEASE CONTROL RECORD

TEST REPORT NUMBER	REASON OF CHANGE	DATE OF ISSUE
TSupPhotos_FCC181512-0	Original release	21/07/2022

This document is valid in last revision that deletes and replaces the previous one

1. TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)

1.1 EUT Identification

DESCRIPTION	Sub 1-GHz IPv6/6LoWPAN Hardware radio device, compliant within NEMA standard, that operates as: - Smart Lighting Node - Gateway for other Nodes
COMMERCIAL NAME	PE Smart Lighting Node Hybrid NEMA
MODEL NAME	NDLM007US-1
SERIAL NO.	Prototype
PRSLAB IDENTIFICATION	BC 155/2022 1/3
TRADEMARK	
MANUFACTURER	MinebeaMitsumi Inc.
COUNTRY OF MANUFACTURER	Japan
SINGLE UNIT OR SYSTEM	Single
FCC CLASSIFICATION	Class B
POWER SOURCE	AC main
SUPPLY VOLTAGE	100 – 277V ~ 50-60Hz
MAX POWER or MAX ABSORBED CURRENT	600W with max load
OPERATING TEMPERATURE	-40°C ÷ +70°C
HW VERSION	PRD-LMN-0058 (-01) NDLM007US-1
FW VERSION	4.6.0
DIMENSIONS	Diameter 84mm; Height 106.9mm
EUT STANDING	Mounted on street lights (NEMA connector)

1.1 Bluetooth Low Energy module technical data

MODULE MANUFACTURER	
MODULE MODEL	BlueNRG-2
ETS CATEGORY	Bluetooth Low Energy 5.2
TYPE OF RADIO DEVICE	Transceiver
FREQUENCY BAND	2400 – 2483.5MHz
NUMBER OF CHANNELS	40
CHANNEL BANDWIDTH	2MHz
CHANNEL SPACING	2MHz
TYPE OF MODULATION	GFSK
DATA RATES (Mbit/s)	1
ANTENNA TYPE	Ceramic chip antenna
ANTENNA GAIN	5.05dBi
ANTENNA MODEL	ANT3216LL00R2400A (ELC-OTH-0166)
ANTENNA MANUFACTURER	YAGEO

2. PHOTOGRAPHIC DOCUMENTATION

PHOTO N° 1 – EUT IDENTIFICATION

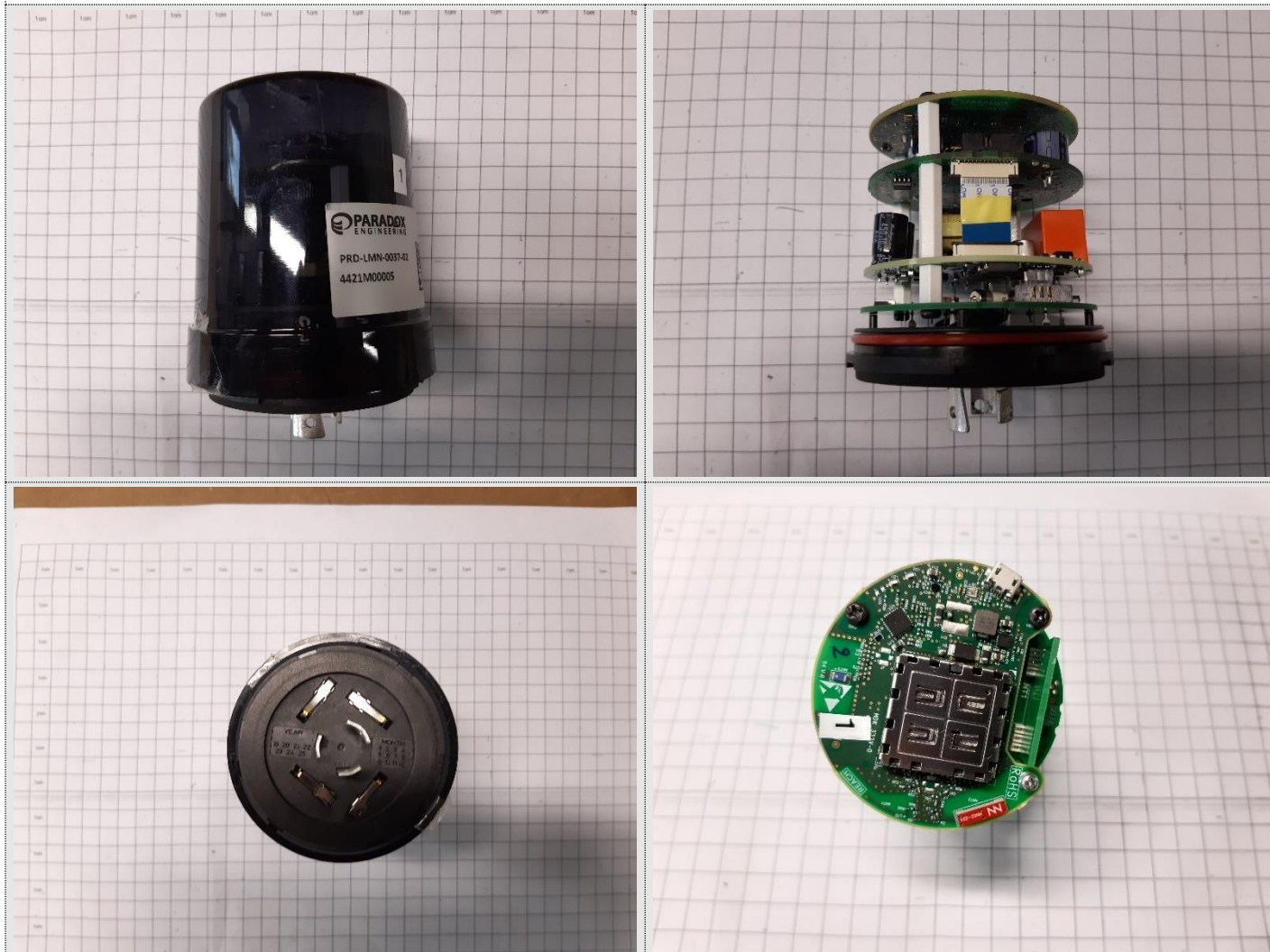


PHOTO N° 2 - RADIATED EMISSION TEST SETUP



PHOTO N° 3 - CONDUCTED EMISSION TEST SETUP



END OF TEST REPORT