KL-Certification GmbH
German Certification Body

Type-Based Certificate

Certificate Number 認証番号	219-259209
Certificate Holder 認証を受けた者	Arduino S.r.l.
Certificate Holder Address 認証を受けた者の住所	Via Andrea Appiani, 25, 20900 MONZA (Italy)
Product Model Name 製品型式又は名称	TPX00227
Product Description 製品説明	Arduino Nesso N1
Manufacturer (if different from Certificate Holder) 製造者 (認証を受けた者と異なる場合)	M5Stack Technology Co., Ltd

Type-Based Certificate **工事設計認証書**	KL-Certification GmbH, operating as a Registered Foreign Certification Body (CAB ID: 219) with respect to Japan, declares that the listed product complies with the Technical Regulations Conformity Certification of Specified Radio equipment in accordance with the provisions of Article 38-24, Paragraph 1 of the Radio Law. KL-Certification GmbH は、日本における登録外国適合性評価機関 (CAB ID: 219) として活動しており、記載されている製品が電波法第 38 条の 24 第 1 項の規定に従って特定無線設備の技術基準適合証明に適合していることを宣言します。
Classification of Specified Radio equipment **特定無線設備の区分**	Ordinance concerning Technical Regulations Conformity Certification etc. of Specified Radio Equipment 特定無線設備の技術基準適合証明等に関する規則
Annex **付属書類**	The certificate is only valid together with the annex. 証明書は付属書類と併せてのみ有効となります。

CAB 219

St. Ingbert, 30.09.2025
Place, issue date
場所、発行日

Philipp Gräf
Name & authorized Signature
名前と正式な署名

Product Characteristics

Brand Name	ARDUINO
Hardware Version	N/A
Software Version	N/A

Specified Categories

Specified Radio Equipment	MIC Ordinance No. 37	remark
Low power data communications system in the 2.4GHz band	Article 2 paragraph 1 item 19	
Radio equipment of specified low power radio stations	Article 2 paragraph 1 item 8	

Emission Information

Technology	Frequency Range	Emission Designator	RF Power		Antenna Power
			Max.	Type	
Bluetooth BLE (1 Mbps)	2402MHz-2480MHz	1M24F1D	1.00mW	Conducted	--
LoRa	922MHz-923.4MHz	127KF1D	3.00mW	Conducted	--
802.11b	2412MHz-2472MHz	12M9G1D	--	--	4.000mW/MHz
802.11g	2412MHz-2472MHz	16M5D1D	--	--	2.000mW/MHz
802.11n(HT20)	2412MHz-2472MHz	17M5D1D	--	--	2.000mW/MHz
802.11n(HT40)	2422MHz-2462MHz	33M0D1D	--	--	1.000mW/MHz

Antenna

Antenna Type	Manufacturer	Model/Part No.	Max Gain [dBi]	Frequency band [MHz]
BT/WIFI FPC antenna	M5Stack Technology Co., Ltd	Arduino Nesso N1	-4.72	2400-2500
LoRa PCB Antenna	M5Stack Technology Co., Ltd	Arduino Nesso N1	-5.37	900-940

Type-Based Certificate

The assessed Technical Construction File is part of the application. The validity of the Certificate is limited to products equal to the examined one.
When placing the product on the market in Japan the manufacturer or certificate holder must label the product with the following Specified Radio Equipment marking:

R 219-259209

Type-Based Certificate

Technical Construction File assessed for this type-examination:

Test Report(s):	Supporting Documentation:
Report No.: AiTSZ-250303030TW1 issued by Guangdong Asia Hongke Test Technology Limited, dated Mar. 20, 2025 Report No.: AiTSZ-250303030TW2 issued by Guangdong Asia Hongke Test Technology Limited, dated Mar. 20, 2025 Report No.: AiTSZ-250303030TW3 issued by Guangdong Asia Hongke Test Technology Limited, dated Mar. 20, 2025	Service Agreement Agent Authorization Application Form Proof for Product Quality Control Declaration for Radio Protection Methodology Antenna Specifications Bill of Material Block Diagram Schematics PCB Layout/Parts Placement Operational Description Internal Photos External Photos Label and label location Test Setup Photos User Manual

Please note the following points:

1) The review has been completed and a certificate has been issued, the certificate is valid with immediate effect.
2) The documents shall be submitted to MIC and the device shall be published after a while on the MIC website: http://www.tele.soumu.go.jp/giteki/SearchServlet?pageID=js01

Radio Law, Article 38-25

1) A person who has received a construction design certification (hereinafter referred to as a "certified dealer") from a registered certification body, when dealing with a specified radio equipment based on the construction design pertaining to the relevant construction type certification (hereinafter referred to as "certified construction design") must ensure that the relevant specified radio equipment conforms to the relevant certified construction design.
2) A certified dealer must inspect the specified radio equipment that it deals in under the preceding paragraph, in accordance with the method for verification pertaining to the construction design certification, and prepare and maintain the inspection records specified by Order of the Ministry of Internal Affairs and Communications.

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