



Gréasque (France), August 10th, 2026

**Subject: Application of Class II Permissive Change for RADIO Certification of family
SLA, SMA, SLI, SMI, SLE, SME**

Applicant: STID

Product (PMN): MUF

Model (HVIN): MUF

Host (HMN): SLA-W5X (already certified); SLA-R5X; SLI-W5X; SLE-W5X; SMA-R5X;
SMA-W5X; SMI-W5X; SME-W5X

FCC ID: OVNMF

To Whom It May Concern:

We would like to submit the above product for Certification concerning FCC in Class II Permissive Change adding variant to a certified range of products.
Please review all required documents enclosed.

This range of products is a UHF RFID reader from 902 MHz to 928 MHz.
All products described below integrate the same FCC-certified UHF RFID module (MUF).

This correspondence outlines the similarities and distinctions between the RFID reader products offered within our SMx, SLx, product family (x = A, I or E). Furthermore, it delineates the technical variations that exist among these models.

All products referenced in this declaration utilize the same MUF RF technology platform.
The distinctions between the various models are primarily associated with:

- Main board implementation
- Available I/O connectors and interfaces
- Only external or Attached and external antennas (SLx and SMx families)
- Firmware operational modes (Read-Only or Read & Write)

The only product tested is the host SLA-W5X to validate this product family



HEADQUARTERS
20 Parc d'activités des Pradeaux
13850 Gréasque, France

Tél : +33 (0)4 42 12 60 60
info@stid.com



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1. Product Family Comparison Summary

SLA-W5X is the tested host (MUF module is inside all hosts)

Characteristic	SLA-W5X	SLA-R5X	SLI-W5X	SLE-W5X	SMA-R5X	SMA-W5X	SMI-W5X	SME-W5X
MUF RF Module	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Connected antenna	1 fixed to box	1 fixed to box	1 fixed to box	1 fixed to box	No	No	No	No
Multiple Antenna	Up to 4	Up to 4	Up to 4	Up to 4	Up to 4	Up to 4	Up to 4	Up to 4
External antenna	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Variant Available	Read & Write	Read-Only	Read & Write	Read & Write	Read-Only	Read & Write	Read & Write	Read & Write
Maximum RF Power	High	High	High	High	High	High	High	High
Operating frequency range	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RF Switch Architecture	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Non-RF boards differences		Same as SLA-W5X	Mother board ≠ SLA-W5X	Mother board ≠ SLA-W5X	Same as SLA-W5X	Same as SLA-W5X	Same as SLI-W5X	Same as SLE-W5X
Interface connectors	Cable glands + 4 RF	Same as SLA-W5X	RJ45, DB9, M12 + USB C + 4 RF	3 x M12 + 4 RF	Same as SLA-W5X	Same as SLA-W5X	Same as SLI-W5X	Same as SLE-W5X
Size	Large	Large	Large	Large	Large	Large	Large	Large

See physical differences between products on next pages

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S.A.S. au capital de 1 588 800 € - RCS Marseille 408 472 751 Siret 408 472 751 00044 – NAF 7112B - N° TVA FR96 408 472 751

2. SMx Product Family (SMA-R5X, SMA-W5X, SMI-W5X and SME-W5X)

The SMx family comprises UHF RFID readers denoted as follows:

- SMA (Access)
- SMI (Industry)
- SME (Extreme)

All models within the SMx family share a common fundamental RF architecture, which consists of the following components:

- MUF RF Module
- Main Board
- RF Switch

The MUF RF module is uniform across all SMx variants, delivering identical RF characteristics and output power levels.

The distinctions among the SMA, SMI, and SME models are confined to the design of the main board and the available external I/O interfaces. These variations are exclusively related to product integration requirements and do not influence the RF operating characteristics.

For instance, the SMI model is equipped with interfaces including RJ45, DE9, and M12 connectors, which are absent from the SMA model. Similar disparities may exist between the various SMx models depending on their designated application environments.

Concerning SMA model is offered in two functional configurations:

- R Configuration: Read-Only operation (ref SMA-R5X).
- W Configuration: Protocol-controlled Read & Write operation (ref SMA-W5X).

Both the R and W configurations utilize the same RF hardware platform and output power. The differentiation resides in firmware functionality and operational capabilities.



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3. SLx Product Family (SLA-R5X, SLA-W5X, SLI-W5X and SLE-W5X)

The SLx family encompasses three models:

- SLA (Access)
- SLI (Industry)
- SLE (Extreme)

Each SLx model is directly derived from its corresponding SMx reader and incorporates the following components:

- One complete SMx reader
- One spectre antenna, attached to the case, that operates within the same UHF frequency range

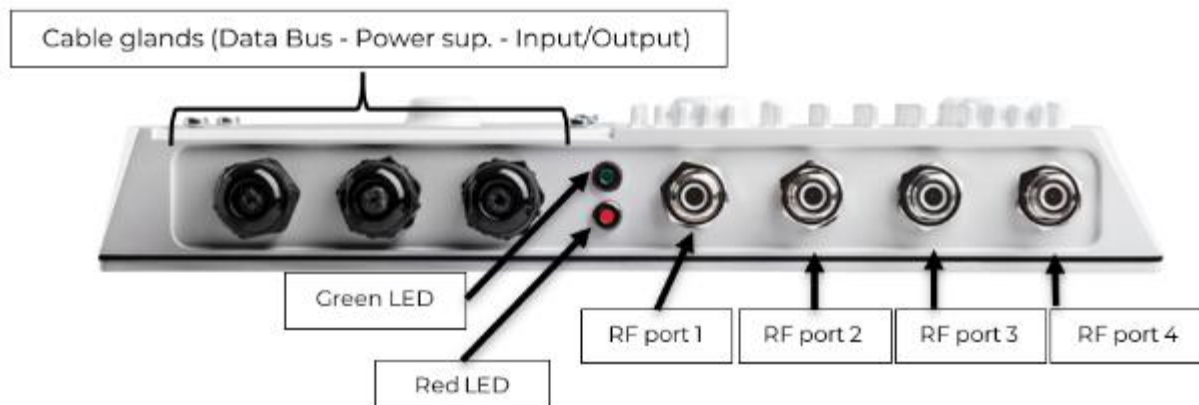
Thus, the relationships can be expressed as follows:

- SLA = SMA + External attached spectre antenna
- SLI = SMI + External attached spectre antenna
- SLE = SME + External attached spectre antenna

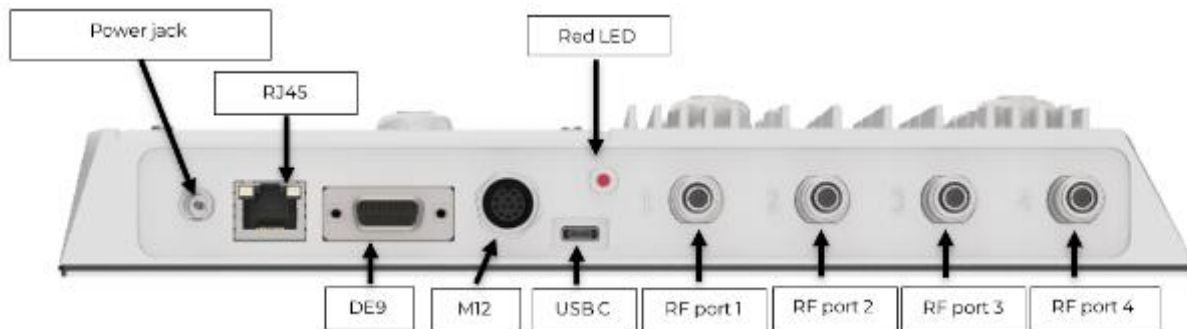
It is important to note that the RF module, main electronics, and output power characteristics remain consistent with the respective SMx and SLx model. The primary distinction lies in the SMx inputs/outputs.

4. Physical Differences Between Products

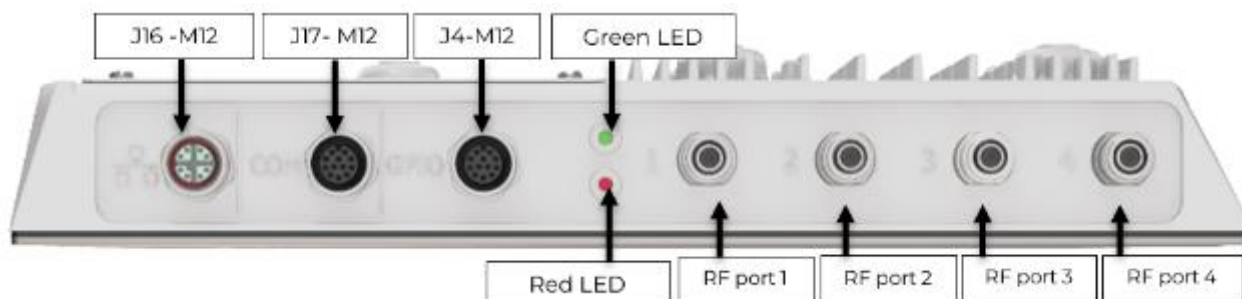
SMA (and SLA without attached antenna) – Host already certified with MUF Module.



SMI (and SLI without attached antenna)

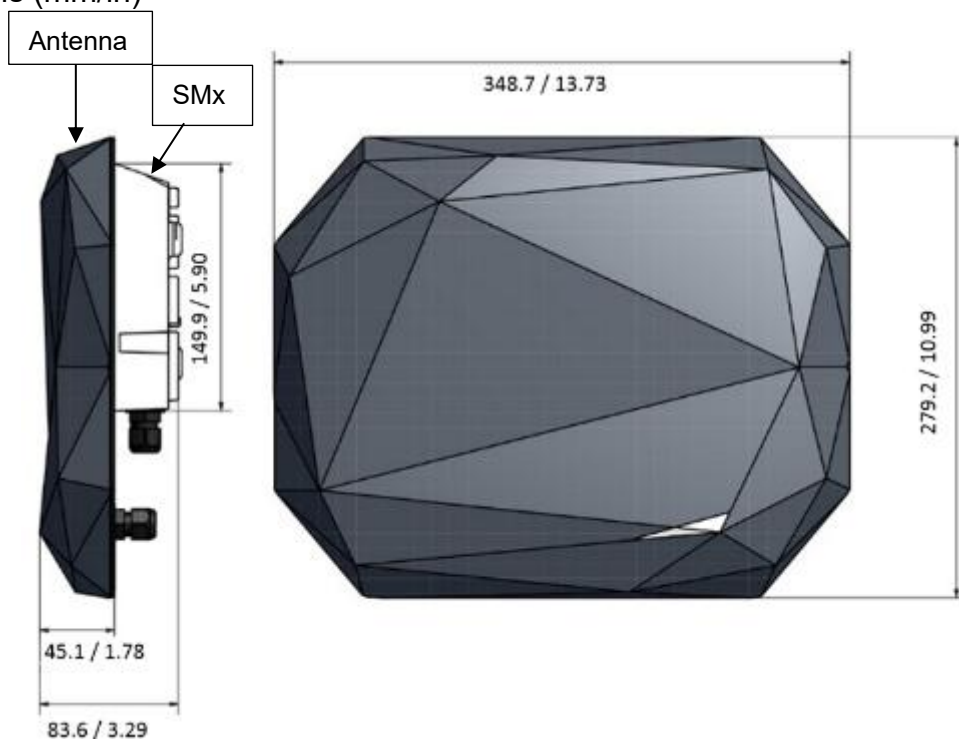


SME (and SLE without attached antenna)



SLx = SMx + attached antenna

Dimensions (mm/in)



All SLx products have an antenna gain of 9.68 dBi or lower.

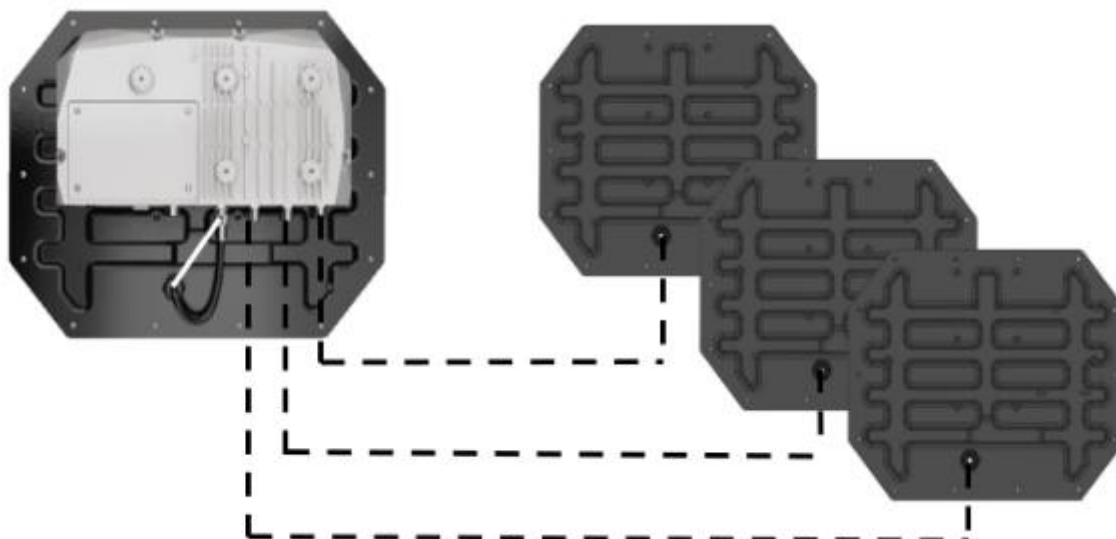
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SLx and Antennas connection



You can connect up to four antennas via the RF output ports, as illustrated. This is applicable to all SLx products; however, it's important to note that only one antenna can transmit at any given time.

All SMx variants have identical dimensions, and the same applies to all SLx variants.

These variations do not alter the foundational RF technology employed across the product families.

If you have any queries, please do not hesitate to contact us.

Regards

Sylvain Poitrat, August 10th, 2026



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