

Coverletter:

Yunex GmbH wants to get FCC-Certification for the following Part 90 Road Side Unit: RSU2X US.

The unit will get the following FCC-ID: 2A2U3RSU2X

The device uses 802.11p DSRC in the frequency range 5895-5925MHz. Other channels are disabled on all devices marketed under this grant.

The device is equipped with C-V2X functions, but C-V2X is disabled on all devices marketed under this grant. The User Manual and Operational Description describe this in a prominent location.

The device uses the GSM/UMTS/LTE module XPYTOBYL201.

The device uses the WLAN and BT module VPYLBEE5HY1MW. Only 2.4 GHz WiFi are supported, the 5GHz operation of the used WiFi module is deactivated and cannot be used in any configuration. The Module supports Bluetooth and Bluetooth low energy (BLE). The device uses an antenna that is not listed on the original grant. As per KDB inquiry 372095, further testing was done with the new antenna in the Yunex RSU.

List of documents:

Exhibit	Thema	File
Exhibit 01	Label and placement	Label_and_placement.pdf
Exhibit 02	Not needed	-----
Exhibit 03	External Photos	photos_external
* Exhibit 04	Block Diagrams	RSU2X-US_Frequencies.pdf
* Exhibit 05	Schematic Diagrams	S24707-E200-A1-4-7406.pdf S24707-E200-A1-4-7411.pdf
Exhibit 06	Testreport DSRC	FG21-126_signed_2x_part1.pdf FG21-126_signed_2x_part2.pdf
	Test report simultaneous trans.	FG21-172_signed_2x.pdf
	TR BT WLAN	FG21-195_signed_2x.pdf
Exhibit 07	Test Set-up Photos	photos_setup.pdf
*Exhibit 08	User Manual	RSU2X-US Installation Manual v0_3(en).pdf Geheimhaltungserklärung(NDA) SMO YU_E.pdf
*Exhibit 09	Internal Photos	photos_internal.pdf
Exhibit 10	Informations	-----
Exhibit 11	RF exposure	FG21-203_signed_2x.pdf
* Exhibit 12	Operational Description	RSU2X_US_System Description_v0_4_No_CV2X(en).pdf
	Tune-Up Procedure	RSU2X_Tune-Up_Procedure.pdf
	Craton2 Secton V2X Calibration	CRATON2_SECTON_V2X_RF_System_Calibration_Application_Note_ver_2.3.pdf
	Antenna data sheet	PA.710.A.pdf

Exhibit 13	Cover letter Request for confidentiality	This file ConfidentialityRequest_RSU2XRSU-dec16_2021.pdf
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For the Exhibits marked with ‘*’ Yunex requested Confidentiality according to 47 CFR 0.457 and 0.459 of the FCC rules because these are sensitive parts owned by this company and include much of Know-How or sensitive data, it will not be provided to the public. Access to internal photos and user manual information is strictly controlled by the applicant. The device is only installed in locations that are not publicly accessible and are installed only by professional installers. Devices are only sold under NDA, including third party sales.

The labelling on some photos may be not the actual status. The correct labelling you can see on the label photo in Exhibit 1.