

Technical Description of Results

SCALANCE MRM85633M

FCC ID: LYHM85633M

Report Reference: MDE_SIEM_2525_TD_01

Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the test laboratory.

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1 General Notes

All device specific information and listed test results in this annex are taken from the following documents, which were issued by:

Bureau Veritas Consumer Product Services (H.K.) Ltd., Taoyuan Branch.

- SAS.CBSD Test Report #RFBGDY-WTW-P26040155 R1, dated on 2026-05-19
Filename: RFBGDY-WTW-P26040155 R1_Siemens_MRM85633M_CBSD-SAS.pdf
- Test Logs referenced in Report #RFBGDY-WTW-P26040155 R1, Page 46
Filename: BGDY-WTW-P26040155_Siemens_MRM85633M_CBSD-SAS_Test Logs.pdf

2 Comments on KDB 940660 D01 Part 96 CBRS v03r01

2.1 Section 3.2: Technical Requirements, Table 1

Table 1 - Required data collection capabilities for CBSD management software	
All CBSDs:	
Geographic location	Yes
Antenna height AGL (m)	1.0
CBSD class (Category A or B)	B
Requested authorization status (PAL or GAA)	GAA
FCC ID	LYHMRM85633M
Call sign (PALs only)	n/a
User contact info	Siemens
Air interference technology	NR
Serial #	VPS2445620
Sensing capability (if supported)	No

Category B Devices:	
Limited to Outdoor operation	Indoor Deployment = FALSE
Antenna gain	9
Antenna Beamwidth	90
Antenna Azimuth	30
Antenna Down tilt angle	60

Note:

Values in Table 1 are taken from Test Log "WINNF.FT.D.REG.6, Page 3ff in Report BGDY-WTW-P26040155_Siemens_MRM85633M_CBSD-SAS_Test Logs.pdf

2.2 Section 3.3: Test Cases for Section 96.39 CBSD General Requirements

a) CBSDs:

FCC Part Section(s)	Section 3.3a item	Section 3.3a item Description	WinnForum Test Case	Test Result
96.39 (c)	1	Confirm that the device will only transmit after it receives authorization from a SAS	WINNF.FT.D.REG.6 WINNF.FT.D.REG.9 WINNF.FT.D.REG.11 WINNF.FT.D.REG.13 WINNF.FT.D.REG.15 WINNF.FT.D.REG.17 WINNF.FT.D.REG.19 WINNF.FT.C.GRA.1 WINNF.FT.C.GRA.2 WINNF.FT.C.HBT.5	Pass
96.39 (c)	2	Check the device registration and authorization with the SAS – determine if the device behaves appropriately for successful and unsuccessful registrations. The device should not be transmitting without authorization from the SAS.	WINNF.FT.D.REG.2 WINNF.FT.D.REG.9 WINNF.FT.D.REG.9 WINNF.FT.D.REG.11 WINNF.FT.D.REG.13 WINNF.FT.D.REG.15 WINNF.FT.D.REG.17 WINNF.FT.D.REG.19	Pass
96.39(c)(1)	3	Confirm that the device changes its operating power and/or channel in response to a command from the SAS.	WINNF.FT.D.HBT.2	Pass
96.39	4	Confirm that the device correctly configures based on the different license classes	WINNF.PT.C.HBT.1	Pass
96.39(c)	5	Confirm that the device transmits at a power level less than or equal to the maximum power level approved by the SAS.	WINNF.PT.C.HBT.1	Pass
96.39(c)	6	Confirm that the device transmits with a bandwidth less than or equal to the SAS specified bandwidth.	WINNF.FT.D.HBT.2	Pass
96.39(c)(2)	7	Confirm that the device transmits on the SAS specified frequency.	WINNF.FT.D.HBT.2	Pass

FCC Part Section(s)	Section 3.3a item	Section 3.3a item Description	WinnForum Test Case	Test Result
96.39(c)(2)	8	Confirm that the device stops transmission in response to a command from the SAS, within a period as required by Part 96.	WINNF.FT.C.HBT.3 WINNF.FT.C.HBT.6 WINNF.FT.C.HBT.7 WINNF.FT.D.HBT.8 WINNF.FT.C.HBT.10 WINNF.FT.D.RLQ.2 WINNF.FT.D.DRG.2	Pass
96.39 (d)	9	Confirm that the device sends measurements data in response to the command from the SAS.	N/A	N/A
96.39(a)	10	For devices with geo-location, confirm that it notifies the SAS of a new location when it is beyond the required distance parameter (± 50 m) within the required time frame.	N/A	N/A
96.39 (d)	11	Confirm that the device is capable of reporting the signal level (measurement data) and frequency to SAS.	N/A	N/A
96 E	12	When CBSDs communicate through a management system, confirm compliance with all requirements.	WINNF.FT.D.REG.6, WINNF.FT.D.REG.9, WINNF.FT.D.REG.11, WINNF.FT.D.REG.13, WINNF.FT.D.REG.15, WINNF.FT.D.REG.17, WINNF.FT.D.REG.19, WINNF.FT.C.GRA.1, WINNF.FT.C.GRA.2, WINNF.FT.C.HBT.5, WINNF.FT.D.REG.2, WINNF.FT.D.HBT.2, WINNF.FT.C.HBT.3, WINNF.FT.C.HBT.6, WINNF.FT.C.HBT.7, WINNF.FT.D.HBT.8, WINNF.FT.C.HBT.10, WINNF.FT.D.RLQ.2, WINNF.FT.D.DRG.2, WINNF.FT.C.HBT.9, WINNF.FT.C.SCS.1, WINNF.FT.C.SCS.2, WINNF.FT.C.SCS.3, WINNF.FT.C.SCS.4, WINNF.FT.C.SCS.5 WINNF.PT.C.HBT.1	Pass

FCC Part Section(s)	Section 3.3a item	Section 3.3a item Description	WinnForum Test Case	Test Result
96.39	13	When communication between the CBSD and SAS is lost: i) Describe how the CBSD would react if the communications between the device and the SAS is lost. Confirm that the CBSD stops transmission once it loses the link to the SAS. ii) Describe the process for re-establishment of the communications and confirm that the CBSD acts accordingly. iii) Confirm power-on restart process for registration (re- registration) occurs as expected. iv) Confirm the process for de-registration occurs as expected.	WINNF.FT.C.HBT.9 WINNF.FT.C.HBT.10	Pass
96.39(e)	N/A	The CBSD must report to the SAS which available channels or frequencies it will use	WINNF.PT.C.HBT.1 WINNF.FT.D.HBT.2 WINNF.FT.C.HBT.3 WINNF.FT.C.HBT.6 WINNF.FT.C.HBT.7 WINNF.FT.D.HBT.8 WINNF.FT.C.HBT.10 WINNF.FT.D.RLQ.2 WINNF.FT.D.DRG.2	Pass

Note:

Test cases marked as "N/A" are not applicable to the EUT and are either Optional or Conditional as described in Section 6 of WINNF-TS-0122.

2.3 Section 4: SAS and Device Security Requirements

FCC Part Section(s)	Section 4 item	Section 4 item Description	WinnForum Test Case	Test Result
96.39(f)	a) - g)	SAS and Device Security Requirements	WINNF.FT.C.SCS.1 WINNF.FT.C.SCS.2 WINNF.FT.C.SCS.3 WINNF.FT.C.SCS.4 WINNF.FT.C.SCS.5	Pass

End of Technical Description of Results