

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

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RF MPE REPORT

Test Result:	Pass*		
Date of Issue:	2024-08-26		
Date of Test:	2024-06-26 to 2024-08-26		
Date of Receipt:	2024-06-26		
	KDB447498 D01 General RF Exposure Guidance v06		
Standard(s) :	FCC Rules 47 CFR §2.1091		
Trade mark:	CORNING		
Model No.:	E62-N3, SCRN-620		
EUT Name:	Remote Unit, Radio Node		
Equipment Under Test (EUT):		
Address of Manufacturer:	840 N McCarthy Blvd, Milpitas, California, United States		
Manufacturer:	Corning Optical Communications LLC		
Address of Applicant:	840 N McCarthy Blvd, Milpitas, California, United States		
Applicant:	Corning Optical Communications LLC		
FCC ID:	OJFE62-N3-7US		
Application No.:	KSCR2406001179AT		

* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Compliance Certification Services (Kunshan) Inc. CCSEM-TRF-001 Rev. 02 Sep 01, 2023 Rep

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Revision Record					
Version	Description	Remark			
00	Original	2024-08-26	/		

Authorized for issue by:		
Tested By	Damon zhou Damon Zhou /Project Engineer	
Approved By	Verry Hon	
	Terry Hou /Reviewer	



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3 General Information

3.1 General Description of E.U.T.

Dower Supply	AC :100-240V~ 3A 50/60Hz
Power Suppry.	DC: -48VDC 6.5A

3.2 Technical Specifications

Fraguanay Bandy	Booster: 746MHz-756MHz, 758MHz-768MHz	
Frequency Band.	Base station:746MHz-756MHz, 758MHz-768MHz	
Antenna Type:	Internal	
Antenna Gain:	3dBi (Provided by manufacturer)	
Modulation Type:	Booster: 5G NR: CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM	
	LTE: QPSK, 16QAM, 64QAM, 256QAM	
	Base station: 5G NR: CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM	
Antenna Delivery:	MIMO 2*2, SISO	
Temperature Range:	-10℃ to 45℃	

Note:

The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.



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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

• VCCI

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

Frequency range Electric field strength Magnetic field strength Power density Averaging time (MHz) (V/m) (A/m)(mW/cm²) (minutes) Limits for General Population/Uncontrolled Exposure 614 0.3-1.34 1.63 *(100) 30 1.34-30 824/f 2.19/f *(180/f2) 30 30-300 27.5 0.073 0.2 30 300-1500 1 1 f/1500 30 1500-100,000 1 1 1.0 30

According to§1.1310, the limit for general population/uncontrolled exposures



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report KSCR240600117901, KSCR240600117902, KSCR240600117903, KSCR240600117904.

MPE Calculation

According to the formula $S=P/4\pi R^2$, we can calculate S which is MPE.

Note:

1)P (mW)

2)R = distance to the center of radiation of antenna (in centimeter)

3)MPE limit = 1mW/cm²

For Booster

Test Mode	Frequency Band (MHz)	Max tune up E.R.P (dBm)	Operation Distance R(cm)	Power Density (mW/cm2)	Limit of Power Density S(mW/cm2)	Result
5G NR	746 ~ 756	22	20	0.032	0.497	Pass
5G NR	758~ 768	22	20	0.032	0.505	Pass

For Base Station

Test Mode	Frequency Band (MHz)	Max tune up E.R.P (dBm)	Operation Distance R(cm)	Power Density (mW/cm2)	Limit of Power Density S(mW/cm2)	Result
5G NR	746 ~ 756	22	20	0.032	0.497	Pass
5G NR	758~ 768	22	20	0.032	0.505	Pass

Simultaneous transmission Base Station:

Wireless Configure	ireless Configure Max tune up E.R.P Power Density (dBm) (mW/cm2)		Limit of Power Density S(mW/cm2)	Rate	Limit
746 ~ 756	22	0.032	0.497	0.400	4
758~ 768	22	0.032	0.505	0.128	Ι

According to the KDB447498 section 7.2 determine the device is exclusion from SAR test.

--End of the Report--