RF EXPOSURE REPORT

For

Corning Optical Communication LLC

840 N McCarthy Blvd Milpitas California United States

FCC ID: OJFE62-N3-7UF

Report Type:	**Product Name:**
Original Report	Remote Unit

Report Number:	RKSA240125001-00D
Report Date:	2024-04-28
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RKSA2401125001-00D	R1V1	2024-04-28	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant/Manufacturer:	Corning Optical Communication LLC
Tested Model:	E62-N3
Product Name:	Remote Unit
Power Supply:	DC 48V
Operating Frequency Band:	Downlink: 746-757 MHz, 758-768 MHz（TX） Uplink: 776-787 MHz, 788-798 MHz（RX）
Input Signal	GSM, WCDMA, LTE, NR
Maximun Channel Bandwidth:	10MHz
MIMO Type:	Support 2*2 MIMO
★Maximum Antenna Gain:	746-757 MHz: 2.43 dBi; 758-768 MHz: 3.0 dBi

Note:
1. The operating frequency range and maximum antenna gain is declared by the manufacturer and BACL (Kunshan) is not responsible for their accuracy.
2. For Uplink, the EUT only receives and then outputs information from the optical fiber.
3. The device built in two fully identical RF board which work in MIMO and SISO mode, and we recorded worst test results for the modes in this report. The EUT has two antennas. Two antenna ports and cable loss connected to the front end of the antenna port are fully identical based on the declaration of applicant. We verify power of two antenna ports built into the device, then perform fully testing for one of two antenna ports which has the worse case power.

All measurement and test data in this report was gathered from production sample serial number: RKSA240125001-1. (Assigned by BACL (Kunshan). The EUT supplied by the applicant was received on 2024-01-25).

RF EXPOSURE EVALUATION

Exposure Limits

Table 1 to § 1.1310(e)(1)—Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3–3.0	614	1.63	*(100)	≤6
3.0–30	1842/f	4.89/f	*($900/f^2$)	<6
30–300	61.4	0.163	1.0	<6
300–1,500			f/300	<6
1,500–100,000			5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	<30
1.34–30	824/f	2.19/f	*($180/f^2$)	<30
30–300	27.5	0.073	0.2	<30
300–1,500			f/1500	<30
1,500–100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

RF Exposure Data:

Band	Tune-up Coducted Power★	Antenna Gain	Maximum ERP	Maximum ERP	Distance	PD	PD Limit
MHz	dBm	dBi	dBm	mW	cm	mW/cm^2	mW/cm^2
746-757	20.0	2.43	20.28	106.66	20	0.022	0.505
758-768	20.0	3.0	20.85	121.62	20	0.024	0.512

PD = $PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (in appropriate units, e.g., cm).
PD Limit: Refer to FCC 47 CFR Part 1, Subpart I §1.1310 (e) (1), Table 1.
ERP= Coducted Power +Antenna gain（dBi）-2.15
Result: The equipment meets MPE requirement at 20 cm distance.

Declarations

1. Bay Area Compliance Laboratories Corp. (Kunshan) is not responsible for authenticity of anyinformation provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk "★".

2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.

3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.

4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k=2 with the 95.45% confidence interval.

5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Kunshan).

6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

******* END OF REPORT*******