

RF EXPOSURE REPORT INFORMATION

Element Job Number: TRA-062608-00

Please provide the requested support information by filling in the blanks. If an item does not apply, please fill in the section with 'NA'.

The following information is for **Model** (or **System**): OE5S870C - 870-KP-V4 reader

The dimensions (XYZ) of the system: 112.5 x 85 x 19.2 mm

RF Exposure conditions:	
Minimum distance from user during intended product use	0 mm cm
What prevents a user from being closer than this? ex: distance from edge of enclosure, mounted to a wall, etc	The user can touch the outside surface of the enclosure.
Location on/near body during use	Head/Torso ☐ Limbs/Extremities ☒ Not Applicable ☐
Body-worn accessories	None ☒ Product is wall-mounted. There are no body-worn accessories.

Rated Power: The rated power is the maximum RF output power your radio equipment is designed to transmit. List the rated power below along with units. If the value is radiated, please list EIRP or ERP as relevant. For the EU, the rated transmit power is listed in the user manual.

Tune-up Tolerance: The tune-up tolerance is the variability in the RF output power than can be expected due to manufacturing variation, in (dB). The maximum permitted tolerance is 2 dB.

Antenna Gain: If the antenna gain is specific to a frequency range or band, please list the information on a separate line. For loop antennas, no gain is required. List 'loop'.

Minimum Distance: If the minimum distance from the antenna to the enclosure exceeds 5 mm (for portable use), please submit a photo with a ruler showing this measurement, or a CAD drawing with a dimension as a separate document.

Radio Type	Rated Power	Tune-up Tolerance (dB)	Antenna Gain (dBi)	Minimum Distance from Antenna to Enclosure (mm)
125kHz inductive	-1 dBμA/m at 10m	already included	loop	6 mm

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Simultaneous Transmission: If the radio is capable of simultaneous transmission (when two different radios transmit at the same time) with another radio in the product or system, please include the details below. Otherwise, select 'NA'.

Case	List of radios that can simultaneously transmit.
1	NA ☒
2	NA ☐
3	NA ☐
4	NA ☐

Operational Duty Cycle: If the transmitters are designed to operate at a reduced duty cycle, please provide a separate document showing a derivation of the operational duty cycle. **If the operational duty cycle is not inherent in the channel access mechanism, such as TDMA, this information will need to be documented in the report.**

See 2.4 GHz sample below which considers all modes when determining worst case duty cycle:

Description	Payload (bytes)	Rate (bytes/sec)	Duration (sec)	Time between payloads (sec)	Period Allowed (sec)	Duty cycle (%)
Status data	100	500	0.2	30	100	0.7%
Streaming	175	500	0.35	0.01	100	97.2%
Firmware (one time)	40000	500	80	N/A	100	80.0%

Source-Based Time Averaging (FCC KDB 447498) – A time average of instantaneous exposure over a period that is based on an inherent property or duty-cycle of a device to ensure compliance with the continuous exposure limits. The maximum observation period that can be used for the duty cycle calculation is:

<3 GHz: 100 seconds, 3-6 GHz: 60 seconds, 6-10 GHz: 30 seconds, 10-16 GHz: 14 seconds, 16-24 GHz: 8 seconds, 24-42 GHz: 4 seconds, 42 - 95 GHz: 2 seconds. (or 6 minutes for ISSED).

Select which applies:

Assessment to be completed assuming 100% duty cycle

All Radios ☒ Only the following radios:

Duty cycle analysis will be provided as a separate document for each of the following radios:

Reduced duty cycle radios:

Completed by (name): James Kennard

Title: Compliance and Process Engineer

Company: G4S Technology Limited (AMAG Technology)

Date: 24th October 2025

Email: james.kennard@amag.com

Submit completed form to Quote.ENW@Element.com.