

RF EXPOSURE EVALUATION REPORT FROM UL SOLUTIONS

For: Seco S.p.A.

Product: E15 Single Computer Board

FCC ID: 2ALZB-LSF15MP

FCC, KDB 447498 D01 v06

RF Exposure Evaluation Report Serial No.:
UL/REGA1/MPE16146083.19 v01

This RF Exposure Evaluation Report Is Issued Under The Authority
Of Andrew Hoare, Head of Certification:

A handwritten signature in blue ink that reads 'Andrew Hoare'.

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Report Copy No: PDF03

Issue Date: 01 July 2026

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1. Client Information

Company Name:	Seco S.p.A.
Address:	Via Achille Grandi 20 Arezzo, AR 52100 Italy
Contact Name:	Sara Fierli

2. Description Of The Apparatus And Its Operational Environment

Manufacturer	SECO S.p.A.
Brand Name:	Technogym S.p.A.
Model Number(s):	E15 (Single Board Computer)
Intended Operating Environment:	Domestic / Professional / Commercial / Light-industrial

3. Equipment Specifications

Equipment Category:	BT Classic / LE, WLAN 2.4 GHz and 5 GHz
Type of Unit:	Processor Board with unlicensed connectivity
Operating Frequency Range:	
Bluetooth Classic / LE	2402 - 2480 MHz
WLAN 2.4GHz	2412 - 2472 MHz
WLAN 5GHz	5150 - 5825 MHz
RF Output Power:	
BT Classic / LE	+17.8 dBm EIRP
WLAN 2.4GHz	+21.8 dBm EIRP
WLAN 5GHz	+22.5 dBm EIRP
Antennas (Internal to product):	Antenna gains are integral in the EIRP values above

The equipment supports simultaneous transmission from the two antennas. Wi-Fi emanates from Antenna 0 and BT emanates from Antenna 1.

The simultaneous transmission combinations are:
one of BT classic or BT LE and one of 2.4GHz or 5.0GHz Wi-Fi

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4. Methods and Procedures

Reference:	KDB 447498 D01 v06, sections 7.1 and 7.2
Title:	RF Exposure Procedures and Equipment Authorisation Policies for Mobile and Portable Devices

Standalone and simultaneous, routine MPE considerations for a user / antenna separation distance of >20cm are defined in KDB 447498D01 (v06) Chapters 7.1 and 7.2

5. Calculations

5.1: For Bluetooth 2.4 GHz

Values:

Transmitter frequency range = 2402 MHz to 2480MHz

EIRP = +60.3 mW (+17.8dBm)

R = 20cm

Power Density Requirement

From table 1 (e)(1)(II) - Limits for General Population/ Uncontrolled Exposure of
FCC Rule Part 1.1310 for 2.4GHz

$$S_{req1} = 1.0 \text{ mW/cm}^2$$

Calculation for 20cm distance:

$$S = \text{EIRP} / 4 \pi R^2$$

$$S = 60.3 / (12.56 \times 20^2)$$

$$S = 60.3 / (5024)$$

$$S_1 = 0.012 \text{ mW/cm}^2 (< 1.0 \text{ mW/cm}^2)$$

This equates to a safe operating distance of 2.2cm at the RF exposure limit of 1.0 mW/cm²

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5.2: For WLAN 2.4GHz

Values:

Transmitter frequency range = 2412 MHz to 2472MHz

EIRP = 151.4 mW (+21.8dBm)

R = 20cm

Power Density Requirement

From table 1 (e)(1)(II) - Limits for General Population/ Uncontrolled Exposure of
FCC Rule Part 1.1310 for 2.4GHz

$$S_{\text{req2}} = 1.0 \text{ mW/cm}^2$$

Calculation for 20cm separation:

$$S = \text{EIRP} / 4 \pi R^2$$

$$S = 151.4 / (12.56 \times 20^2)$$

$$S = 151.4 / (5024)$$

$$S_2 = 0.030 \text{ mW/cm}^2 (< 1.0 \text{ mW/cm}^2)$$

This equates to minimum safe operating distance of 3.5 cm at the RF exposure limit of 1.0 mW/cm²

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5.3: For WLAN 5GHz

Values:

Transmitter frequency range = 5150 MHz to 5825MHz

EIRP = 177.8 mW (+22.5 dBm)

R = 20cm

Power Density Requirement

From table 1 (e)(1)(II) - Limits for General Population/ Uncontrolled Exposure of
FCC Rule Part 1.1310 for 5GHz

$$S_{\text{req3}} = 1.0 \text{ mW/cm}^2$$

Calculation for 20cm separation:

$$S = \text{EIRP} / 4 \pi R^2$$

$$S = 177.8 / (12.56 \times 20^2)$$

$$S = 177.8 / (5024)$$

$$S_3 = 0.035 \text{ mW/cm}^2 (< 1.0 \text{ mW/cm}^2)$$

This equates to minimum safe operating distance of 3.8 cm at the RF exposure limit of 1.0 mW/cm²

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5.4: KDB447498 D01 v06 Section 7.2: SIMULTANEOUS TRANSMISSION CONSIDERATIONS

The radio modules support simultaneous transmissions, and the worst-case scenario is:

BT + 5GHz Wi-Fi

As per the KDB, summation of calculated MPE ratios (worst case):

$$\Sigma \text{MPE}_{\text{ratios}} = (S_1 / S_{\text{req1}}) + (S_3 / S_{\text{req3}})$$

$$= 0.012 + 0.035$$

$$= \mathbf{0.047}$$

Σ of MPE ratios < 1.0, so in accordance with KDB447498 D01 V06 Section 7.2, simultaneous transmission test exclusion applies for the transmitters.

Conclusion

The required 20cm RF exposure limits for General Population/ Uncontrolled Exposure will not be exceeded for the E15 Single Computer Board using the specified antennas in the specified configuration.
