Rev. 10 (March 2019)



RADIOMODEM & RTU D540-6 Series

General description

D5 Series radiomodems with RTU function, feature 4 digital inputs, 2 digital relay outputs, 2 analog inputs, 2 analog outputs, an RS-485 serial interface, and a counter input; all of which are software configurable. The embedded inputs and outputs allow the D5 Series radiomodem to be used in data acquisition and remote control applications.

D5 Series has 4 operating modes that are software programmable: radiomodem, mirror point to point, Modbus slave, or Modbus master, allowing greater flexibility in the field.

D5 Series uses routing tables to obtain fewer collisions in complex networks and D5 can also be used as a Modbus hub, allowing 8 Modbus modules (inputs and/or outputs) to be connected through the RS-485 port. (D5 will power these modules).

Data Encryption 128bit AES (Advanced Encryption Standard) ensures transmitted data security.

A power-saving function is built in, to activate inputs only when required, allowing for extended battery life.

TECHNICAL SPECIFICATION, INSTALLATION CONFIGURATION INSTRUCTION AND MORF DOWNLOAD FROM OUR WEB SITE WWW.EREWIRLESS.COM THE **D5 USER MANUAL**

Technical support

Our website www.erewirless.com contains many useful information, user guides and configuration software and technical documents always update to the latest version.

If you have technical problems or cannot find the required information in the provided documents, contact our Technical Support by email at info@erewireless.com or by phone +39 030 7870787.

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Restrictions on use

ERE WIRELESS PRODUCTS HAVE NOT BEEN DESIGNED, INTENDED NOR INSPECTED TO BE USED IN ANY LIFE SUPPORT RELATED DEVICE OR SYSTEM RELATED FUNCTION NOR AS A PART OF ANY OTHER CRITICAL SYSTEM INCLUDED AERONAUTICAL / AEROSPACE APPLICATION.

ERE WIRELESS PRODUCTS ARE GRANTED NO FUNCTIONAL WARRANTY IF THEY ARE USED IN ANY OF THE APPLICATIONS MENTIONED.

The D5 Series radio modems have been designed to operate on civil frequency ranges as SRD (Short Range Device), the exact use of which differs from one region and/or country to another. The user of a radio modem must take care that the device is not operated without the permission of the local authorities on frequencies other than those specifically reserved and intended for use without a specific permit.

The D5 Series can be used in the following countries with E.R.P. and duty cycle limitation, either on licence free channels or on channels where the operation requires a licence. More detailed information is available at the local frequency management authority.

Country allowed (4)

ALB-AND-AUT-BEL-BIH-BLR-BUL-CYP-CZE-D-DNK-E-EST-F-FIN-G-GRC-HNG-HOL-HRV-I-IRL-ISL-LIE-LTU-LUX-LVA-MDA-MKD-MLT-MNE-NOR-POL-POR-ROU-RUS-S-SRB-SUI-SVK-SVN-TUR-UKR

Allowed use according to ERC Recommendation 70-03						
Model	Frequency (MHz)	Annex	E.R.P (2)	Duty Cycle (3)	Country(4) with restriction of use	
540	863,000 - 870,000	1	≤ 25 mW	≤ 0.1 %	BLR-GRC-NOR RUS-S	
540	868,000 - 868,600	1	≤ 25 mW	≤ 1 %	RUS	
540	868,700 - 869,200	1	≤ 25 mW	≤ 0.1 %	BLR-UKR	
540	869,400 - 869,650	1	≤ 500 mW	≤ 10 %	BLR-RUS-UKR	
540	869,700 - 870,000	1	≤ 5,0 mW	≤ 100 %	RUS-UKR	

NOTE:

Before to install the device check always the latest version of ERC Recommendation 70-03 in order to verify any restriction and limitation in terms of E.R.P and Duty Cycle
(1) Annex 1.xxx refer to SRD (Short Range Device), Annex 2 refer to Tracking, Tracing

and Data Acquisition.
(2) E.R.P. = Max Effective Radiated Power allowed from radiomodem and associated antenna takes into consideration transmitter power output, transmission line attenuation, RF connector insertion losses and antenna gain

(3) Duty Cycle is defined as the ratio, expressed as a percentage, of the maximum transmitter "on" time on one carrier frequency, relative to a one hour period
(4) The CEPT country codes can be seen under http://www.cept-org/cept/cept-country-

Warnings and safety instructions

-Read these safety instructions carefully before using the product:

-Warranty will be void, if the product is used in any way that is in contradiction with the instructions given in this manual, or if the radio modem housing has been opened or tampered with.

-The radio modem is only to be operated at frequencies allocated by local authorities, and without exceeding the given maximum allowed output power ratings and duty cycle. ERE WIRELESS and its distributors are not responsible, if any products manufactured by it are used in unlawful ways. -The devices is complies with Directive 2014/53/UE (RED) and Directive

2011/65/UE (ROHS)

-The devices mentioned in this manual are to be used only according to the instructions described in this manual. Faultless and safe operation of the devices can be guaranteed only if the transport, storage, operation and handling of the devices is appropriate. This also applies to the maintenance of the products.

-Place the antenna at a height greater than or equal to 2 m above the general public walkway that gives general public access.

-Do not install the equipment close to a heat source or in damp conditions and direct sunlight is also to be avoided.

-The device must not be exposed to aggressive chemical agents or solvents likely to damage the plastic or corrode the metal parts.

-The device must not be exposed directly to dusty environment.

-Maintenance should only be carried out by qualified persons

-For your own safety, you must ensure that the equipment is switched off before carrying out any work on it.

-Any electrical connection of the product must be equipped with a protection device against voltage spikes and short-circuits

Disposal of waste by users in private households within the European Union



According to Directive 2012/19/EU of the European Union on waste electrical and electronic equipment (WEEE) this product must not be disposed off with your other household waste, it is your responsibility to dispose of your waste by taking it to a collection point designated for the recycling of electrical and

electronic appliances.

Separate collection and recycling of your waste at the time of disposal will contribute to conserving natural resources and guarantee recycling that respects the environment and human health.

For further information concerning your nearest recycling centre, please contact your nearest local authority/town hall offices.

DICHIARAZIONE DI CONFORMITÀ UE EU DECLARATION OF CONFORMITY

Con la presente Hereby

SOLEXY SrI Via Enrico Fermi, 2 I-25015 Desenzano del Garda (BS) Italy

dichiara che la presente dichiarazione di conformità è rilasciata sotto l'esclusiva responsabilità del fabbricante. declares that this declaration of conformity is issued under the sole responsibility of the manufacturer.

Oggetto della dichiarazione	Radiomodem ERE WIRELESS serie D540 per trasmissione dati via radio
Object of the declaration	Radiomodem ERE WIRELESS D540 series for wireless data transmission
Codice prodotto/i Part No.	D540-211E00 / D540-211E04 / D540-211E22 / D540-211E42 / D540-211E43 D540-212E00 / D540-212E04 / D540-212E22 / D540-212E42 / D540-212E00-018 D540-221E00 / D540-221E04 / D540-221E22 / D540-221E42 D540-222E00 / D540-222E04 / D540-222E22 / D540-222E42 / D540-222E00-018 / D540-222E00-025 / D540-222E00-026 / D540-222E00-027 D540-23BE00 / D540-23DE00 / D540-23HE00 D540-406E30 / D540-406E30-006 / D540-506E30 D540-611E00 / D540-611E04 / D540-611E22 / D540-611E42 D540-612E09 / D540-612E04 / D540-612E22 / D540-612E42 / D540-612E22-017 / D540-62E29 D540-62E00 / D540-621E04 / D540-621E22 / D540-621E42 D540-63BE00 / D540-63DE00 / D540-63HE00 D540-E11E00 / D540-E11E04 / D540-E11E22 / E540-E11E42 D540-E22E00 / D540-E21E04 / D540-E21E22 / D540-E21E42 D540-E21E00 / D540-E21E04 / D540-E21E22 / D540-E21E42 D540-E22E00 / D540-E22E04 / D540-E22E22 / D540-E22E42 D540-E3BE00 / D540-E3DE00 / D540-E3DE00 / D540-E22E42

L'oggetto della dichiarazione di cui sopra è conforme alle pertinenti normative di armonizzazione dell'Unione: The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Direttiva 2014/53/UE (RED) Directive 2014/53/UE (RED)

Direttiva 2011/65/UE (ROHS) Directive 2011/65/UE (ROHS)

Sono state applicate le seguenti norme armonizzate: The following harmonised standards have been applied:

EN 300 220-2 V3.1.1 EN 301 489-1 V1.9.2 EN 301 489-3 V1.6.1

EN 60950-1; 2006 + A11 : 2009 + A1 : 2010 + A12 : 2011 + AC : 2011 + A2 : 2013

EN 50581: 2012

Firmato a nome e per conto di SOLEXY Srl Signed for and on behalf of SOLEXY Srl

Desenzano del Garda (BS) Data / Date: 25/03/2019 Giovanni Soldo Amministratore Unico

Solexy Srl divisione ERE WIRELESS

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