

RADIOMODEM

D540-E Series

General description

The D5/Ethernet series are radiomodem with 1 Ethernet port, 1 optically isolated digital inputs and 1 digital relay outputs, an RS-232/485 serial interface, all of which are software configurable.

The embedded inputs and outputs allow the D5/Ethernet Series radiomodem to be used in data acquisition and remote control applications.

D5/Ethernet 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/Ethernet Series uses routing tables to obtain fewer collisions in complex networks and D5/Ethernet 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/Ethernet 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.

FOR TECHNICAL SPECIFICATIONS, INSTALLATION AND CONFIGURATION INSTRUCTIONS AND FURTHER DETAILS DOWNLOAD FROM OUR WEBSITE WWW.EREWIRELESS.COM THE USER MANUAL

Technical support

Our website www.ere wireless.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 0385 48139.

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ERE D5 Series radio modems have been designed to operate on 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.

ERE D5 Series can be used in the following countries with E.R.P. and duty cycle limitation, either on license free channels or on channels where the operation requires a license. 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 frequency according to ERC Recommendation ERC 70-03

Model	Frequency (MHz)	Annex ⁽¹⁾	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-codes>

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 center, please contact your nearest local authority/town hall offices.