

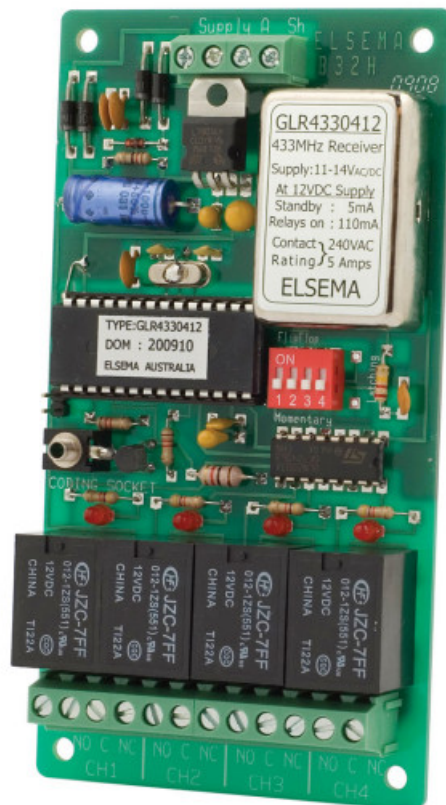


ELSEMA GLR43303, GLR43304 Multi-Channel 433MHz Gigalink Receiver User Guide

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ELSEMA

GLR43303, GLR43304 Multi-Channel 433MHz Gigalink Receiver
User Guide



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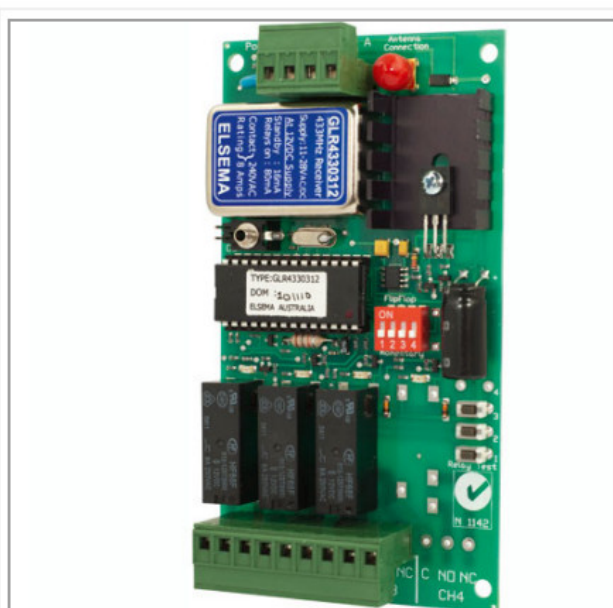
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Features

- Supply voltage can be 12 – 24 Volts AC or DC
- Highly sensitive receiver input stage. When used with GLT433.... Series transmitters and an ANT433S antenna, an operating range of 350 metres (980 ft) is possible.
- Three or four relay outputs. All outputs can be operated simultaneously.
- Crystal controlled for high stability and performance.
- Uses micro-controller technology that can be re-programmed to suit unique applications.
- Momentary, latching and security latching output modes are user selectable.
- Power ON LED indicator.
- Test buttons for the relay.

Applications

- Automatic gates, security, timer-controlled outputs, and simple on/off functions



GLR43303
3-Channel Receiver



GLR43304
4-Channel Receiver

Description

The GIGALINK™ is the most advanced Remote Control technology available in the world today. GIGALINK™ is an invention that has revolutionized the entire Remote Control technology including Elsema's earlier version of the FMT- ... and FMR- ... series. The GLR.... series state-of-the-art invention brings a new dimension to the world of Remote Control technology in domestic, commercial, and industrial applications.

The innovative microcontroller technology replaces the traditional dip switch coding which eliminates any possible code grabbing. Special features such as over four billion code combinations, the ability to program any number of transmitters to any of the receiver outputs, four user-selectable modes, dual conversion superhet, and operation over a wide voltage range all add up to the most advanced and secure Remote Control available.

The multi-channel receivers are available with three or four channels.

Four billion codes

The user can easily change the code on all the channels. Momentary joining the two CC pins on the receiver board sets all channels to one random code. One of 4,294,967,296 possibilities is selected.

Code Programming

For code programming, please refer to the separate programming instructions.

The receiver power must be connected when single or channelized code programming. When programming is completed and the GIGALINK cable is removed from the multi-channel receiver-coding socket, the 4-way dip switch is used to select different output modes. This is described below.

Output Modes

Relay output on the receiver can function in either momentary or latching mode. By default, the mode is set to momentary. Modes are selectable from the 4-way dipswitch. Dipswitch 1 corresponds to relay channel 1 and dipswitch 2 corresponds to relay channel 2 and so on.

Factory Default = Momentary

Momentary – Output is active for as long as the transmitter button is pressed.

This is a standard mode on most automatic gates or garage door openers.

Latching – Output remains active until the next press of the transmitter button.

Similar to switching “on” and “off” a light.

Security Latching – Output remains active until power to the receiver is removed. Similar to security alarms and fire alarms. To activate the security latching mode, a link needs to be soldered into the hole marked as latching.

Customized Software

Custom output modes can be programmed to do special functions. Call Elsa for more details.

AC/DC Supply and Antenna

AC/DC power supply and the antenna is connected via a screw-type terminal block. Do not connect the supply to the 2.5mm coding socket since the connection may damage the microcontroller.

Unique Code System

The microcontroller EEPROM allows large volume users to have a unique code. This enables Elsema to offer everyone “your own” radio control. Case The three or four-channel receiver is supplied without a case, this allows the receiver to be integrated according to your needs. Elsa has available a Quick Mount bracket which enables easy mounting to walls, roofs etc.

Products in the Range

				
GRL43301 1-Channel	GRL43301240 1-Channel, 240V	GRL43302 2-Channel	GRL43302240 2-Channel, 240V	GRL4330312, 3-Channel, 12 - 24V
				
GRL4330412 4-Channel, 12 - 24V	GRL43304240 4-Channel, 240V	GRL43308 8-Channel	GRL4330812 8-Channel, 12-24V Relay Output	GRL43302SS Receiver with 6-way female connector GRL43302SST Receiver with terminal block

Technical Data

Supply Voltage	12 – 24 Volts AC or DC. Can use Elsema's AC power pack (12PP-1000)
Current Consumption	GRL43303/4: 16mA standby at 12VDC
Receiving Freq	433.920MHz (Other frequencies available on request. Refer to the table below)
Operating Temperature Range	-5 to 50°C
Sensitivity	Better than 1.0uV (For output to switch on)
Type of Demodulation	Amplitude Shift Keying (ASK)
Decoding System	Microcontroller-based 96-bit word

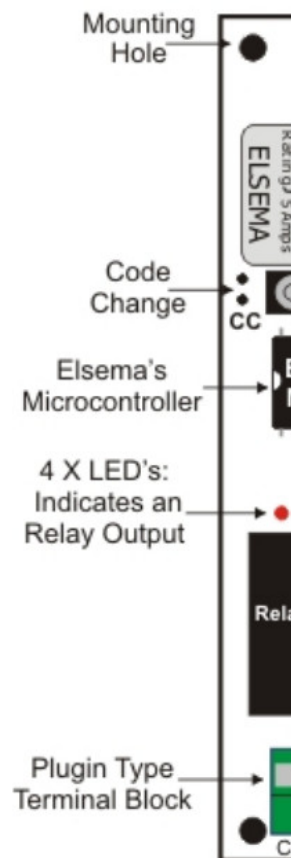
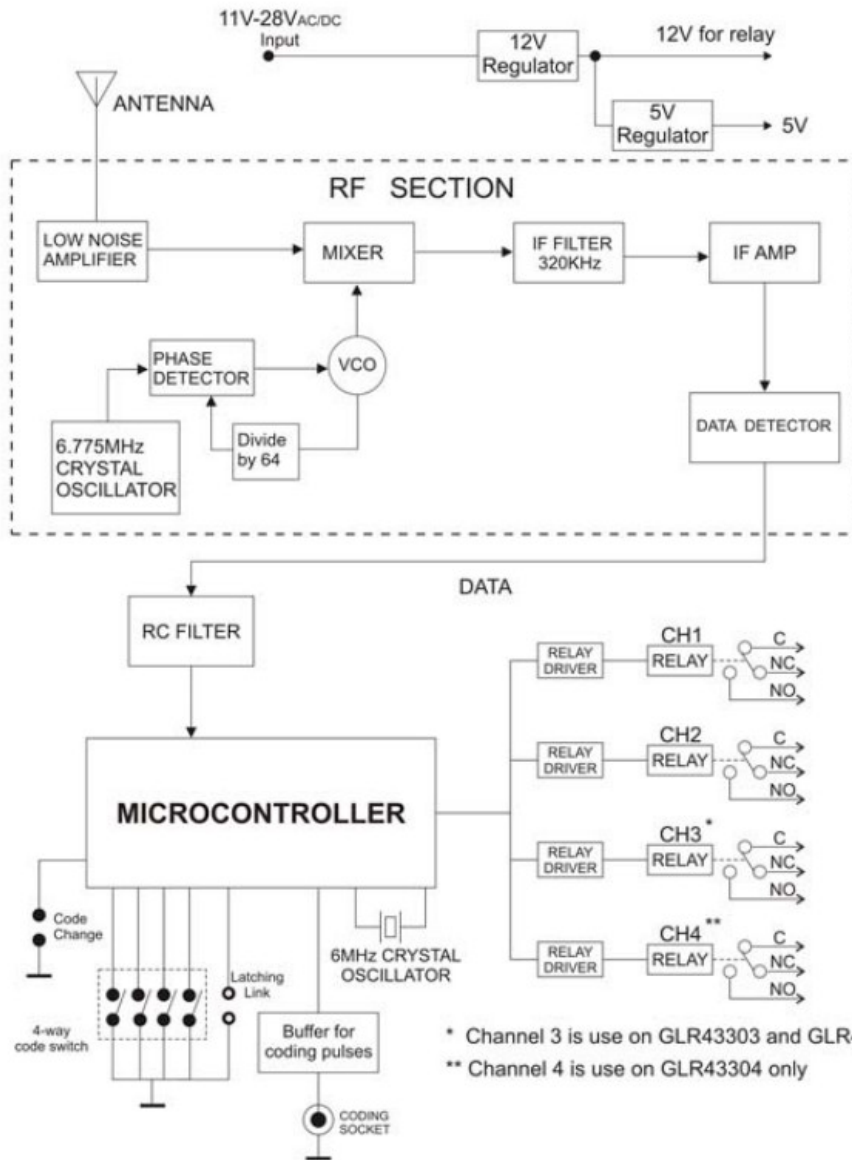
Code Combinations	4,294,967,296
Outputs	GLR43303: Three change-over relay outputs, each rated at 8 Amps/240Volts GLR43304: Four change-over relay outputs, each rated at 8 Amps/240 Volts
Connections	Screw-type terminal block.
Antenna	Elsa's ANT433MHz series antennas or pieces of approximately 690 mm long wire f or short-range applications.
Dimensions	130 X 70 X 30 mm
Mounting hole size	3.97 mm or 5/32"
Weight	GLR43303: 97 grams GLR43304: 116 grams
Microcontroller	Can be re-programmed to suit your customized needs
Useable Transmitters	All Elsema Type 433MHz GLT-... series

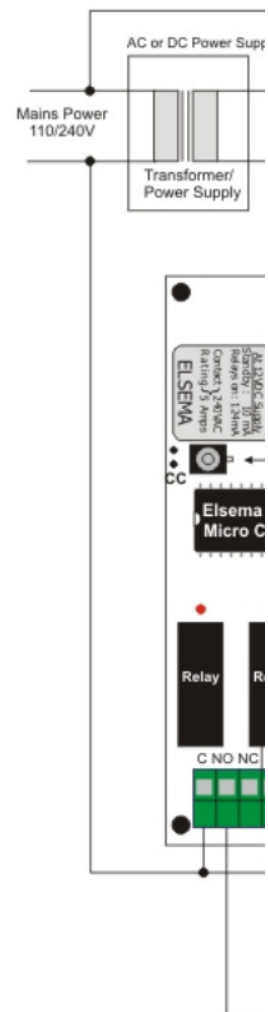
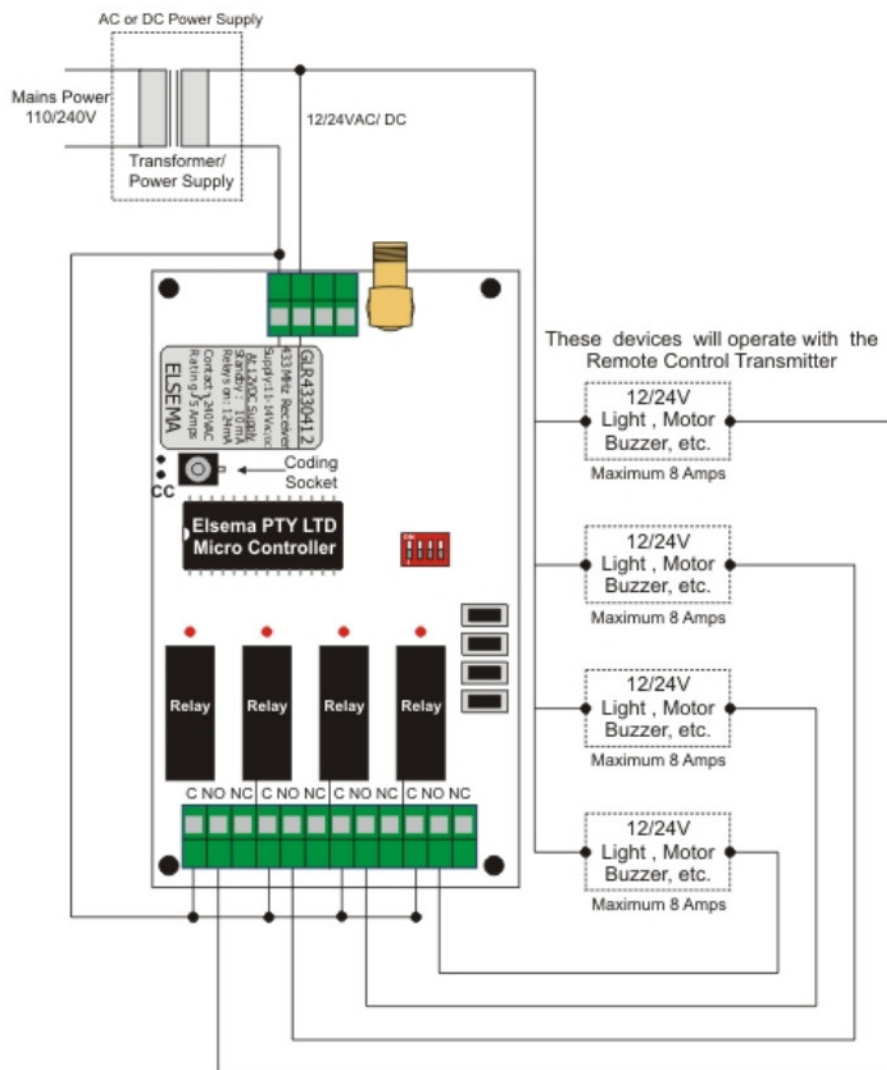
Available Frequencies

SF2	433.664 MHz
SF3	433.408 MHz
SF4	433.152 MHz
SF5	434.688MHz
SF6	434.432 MHz

Special Frequency products can be made upon request. There is a minimum quantity order of 20. Please quote the Correct SF number when ordering transmitters on special frequencies.

Block Diagram





Manufactured by
Elsema Pty Ltd
31 Tarlington Place, Smithfield
NSW 2164, Australia.
Ph: 02 9609 4668
Website: <http://www.elsema.com>
Distributed by

Documents / Resources

	ELSEMA GLR43303, GLR43304 Multi-Channel 433MHz Gigalink Receiver [pdf] User Guide GLR43303, GLR43304, Multi-Channel 433MHz, Gigalink Receiver, Receiver
	ELSEMA GLR43303, GLR43304 Multi-Channel 433MHz Gigalink Receiver [pdf] User Guide GLR43303, GLR43304, Multi-Channel 433MHz Gigalink Receiver, Multi-Channel Receiver, 433 MHz Gigalink Receiver, Gigalink Receiver, Receiver, 433MHz Receiver

References

-  [Automatic Gates | Wireless Remote Control | Elsema](#)

[Manuals+](#).