



GLR2708 and GLR43308

Setup and programming instructions
for the 8 channel Gigalink™ receiver

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FEATURES

- › Eight channel receiver with 8 open collector outputs
- › Supply voltage can be AC or DC
- › Low current consumption
- › Over 4 billion code combinations
- › Crystal controlled for high reliability
- › Can store unlimited number of transmitters
- › Uses micro-controller technology that can be re-programmed to suit unique applications
- › Momentary, Flip Flop and Latching modes are all user selectable
- › Optional QM100 bracket available for easy mounting to cases or walls. C160 case is also available.

DESCRIPTION

This Gigalink™ receiver gives you eight open collector outputs switching to ground with a capacity of 125mA 40 VDC each. Each open collector output is protected with a diode to stop any EMF from getting to the receiver.

The receiver's micro-controller can store unlimited number of transmitters with a high security level using the encrypted 32-bit digital code. Included with the receiver is the Gigalink™ programming cable.

TECHNICAL DATA

Supply Voltage	11.0 - 28 VDC, 10.0 - 28 VAC. Can use Elsemra DC or AC power supply, 12PP1000 or 24PP.
Current Consumption	16mA standby at 12 VDC Supply
Frequencies for GLR2708	27.195 (Standard), 27.045, 27.145 and 27.455 MHz
Frequencies for GLR43308	433.920 (Standard), 433.664, 433.408, 433.152MHz
Output	Eight open collector outputs.
Antenna	ANT27 series (27MHz Series) or ANT433 series (433MHz Series)
Compatible Transmitters	GLT27 MHz series, GLT433 MHz series

PROGRAMMING INSTRUCTIONS

The transmitter and receiver can be multi or single channel programmed.

Multi-channel Programming

This is used to program all channels from a multi-channel receiver to a multi-channel transmitter. Multi-channel programming can be achieved by following the steps below:

- Step 1:** Connect power to the GIGALINK™ receiver. **Make sure all switches on the mode dipswitch are off.**
- Step 2:** Momentarily short the two CC pins on the receiver board. This sets all the channels to a random code. If there are transmitters previously programmed, they will have to be re-programmed when CC pins are shorted. **Do not do this step if you want to keep previously programmed transmitters.**
- Step 3:** Connect the multi-channel transmitter to the multi-channel receiver by inserting the GIGALINK™ cable into the transmitters and receivers 2.5-mm Coding socket. (This will activate the programming mode and is indicated by the red light (LED), on the transmitter that must remain “on”).
- Step 4:** **Activate any two channels simultaneously** on the multi-channel transmitter for one second, LED should blink twice to confirm code programming and then switch “off”.
- Step 5:** Disconnect GIGALINK™ cable.

Repeat steps 3 to 5 to program another multi-channel transmitter.

If you are programming another transmitter, do not short out the CC pins. Shorting out the CC pins will delete all previously programmed transmitters.

SINGLE CHANNEL PROGRAMMING

This is used for programming one channel at a time to the transmitter. Single channel programming can be achieved by following the steps below:

- Step 1:** Connect power to the GIGALINK™ receiver. **Make sure all switches on the mode dipswitch are off.**
- Step 2:** Momentarily short the two CC pins on the receiver board. This sets all the channels to a random code. If there are transmitters previously programmed, they will have to be re-programmed when CC pins are shorted.
- Step 3:** Select the receiver channel, to be programmed, by setting the 4-way dipswitch. See dipswitch table below.

Dipswitch Setting			Receiver Channel
1	2	3	
Off	Off	Off	1
On	Off	Off	2
Off	On	Off	3
On	On	Off	4
Off	Off	On	5
On	Off	On	6
Off	On	On	7
On	On	On	8

- Step 4:** Connect the transmitter to the receiver by inserting the GIGALINK™ cable into the transmitters and receivers 2.5-mm Coding socket. (This will activate the programming mode and is indicated by the red light (LED) on the transmitter that must remain “on”).
- Step 5:** **Activate one of the selected channels** on the transmitter for approximately one second, LED should blink twice to confirm code programming and then switch “off”.
- Step 6:** Disconnect GIGALINK™ cable.

Repeat steps 3 to 6 to program another transmitter channel.

If you are programming another transmitter, do not short out the CC pins. Shorting out the CC pins will delete all previously programmed transmitters.

SPECIAL PROGRAMMING FEATURE FOR GIGALINK™

Forward Programming

Enables GIGALINK™ transmitters to activate unlimited number of receivers simultaneously. GIGALINK™ receivers have an additional programming feature, known as forward programming. This forward programming allows the user to program the transmitter code into the GIGALINK™ receivers.

- Step 1:** Connect power to the receiver and transmitter.
- Step 2:** Place a jumper across the CC pins of the receiver.
- Step 3:** Connect the transmitter and receiver using the coding cable.
- Step 4:** Press the transmitter button for 2 seconds.
- Step 5:** Remove the coding cable.
- Step 6:** Remove the jumper from the CC pin.

The receiver is now programmed with the transmitter's code. Repeat the above steps to program another receiver.

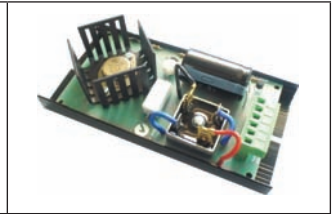
ACCESSORIES AVAILABLE



Weatherproof Case
for receiver unit



Gigalink™ Coding Cable
For coding Gigalink transmitters to receivers



SUPREG12, SUPREG24
Supply and Battery charger. Ideal for charging backup battery and supplying the receiver.



Suitable Antennas
ANT27 series (27MHz Series) or
ANT433 series (433MHz Series)



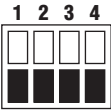







Suitable Power packs
12PP-1000, 12V DC 1000mA
24PP, 24V DC 500mA.



QM100
Quick Mount for easy mounting of receivers on walls.

MODE SETTING

When the GIGALINK™ cable is disconnected the 4-way dipswitch functions as a mode selector for the output. User should set the receiver mode correctly. See below table for different mode setting.

Dipswitch Mode Settings	
The output relay will respond in the following manner when receiving the correct signal from a transmitter.	
	"All Momentary": Relay on, only while correct signal is received
	"All Flip-Flop": Outputs alternate at every correct incoming signal
	"Momentary & Flip-Flop": Outputs 1-4 are momentary & 5-8 are flip-flop
	"Latching on": Outputs will be on until supply to receiver is momentarily interrupted
	"Momentary & Flip-Flop": Outputs 1-6 are momentary & 7-8 are flip-flop
	"Momentary & Flip-Flop": Outputs 1-2 are momentary & 3-8 are flip-flop
	"Momentary & Flip-Flop": Outputs 1-3 are momentary & 4-8 are flip-flop
	"Latching on": Output 1 is latching & 2-8 are momentary

* Dipswitch 4 is reserved

TROUBLESHOOTING

This section contains helpful troubleshooting tips and solutions.

Symptom	Solution
Receiver not responding to transmitter after programming.	Try to program the transmitter again, but this time with the battery connected to the transmitter. Check if GIGALINK™ cable is inserted correctly.
Transmitter activates wrong channel on a multi-channel receiver.	Wrong dipswitch setting while programming the receiver. Use the dipswitch table and program again.
Transmitter has short range.	Check receiver antenna connection. If you are using a shielded coax cable, check that the shield is connected to the negative and the coaxial core to the antenna terminal.
LED is flashing on the transmitter.	Replace battery.

CUSTOMER SUPPORT

If your transmitter and receiver are still not operating properly, contact Elsema's support office at:

Phone: +61 (2) 9609 4668

Fax: +61 (2) 9725 2663

or you can visit our web site at www.elsema.com for the latest updates.

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