

27MHz HAND HELD GIGALINK™ TRANSMITTERS

GLT2700, GLT2701, GLT2702, GLT2703, GLT2704 and GLT2708

Features

- Over 4 billion code combinations
- Can program any number of transmitters to a receiver
- High Security

Applications

- Remote control of garage doors, gates, lights, alarms

Description

These hand held GIGALINK™ transmitters operate on 27MHz. These GIGALINK™ transmitters can be programmed to the 27MHz Gigalink receivers.



The GLT27 series is available with 1, 2, 3, 4 and 8 buttons. The transmission is secure with over 4 billion code combinations.

The hand held GIGALINK™ transmitters have single and multi-channel code programming system that provides flexibility in programming each channel to different receivers. Each transmitter button can be programmed to different single channel receivers.

Multi-channel Code Programming

This is used to program all channels from a multi-channel receiver to the multi-channel transmitter. To Multi-channel code program a transmitter, read receivers setup instructions

Single Code Programming

This is used for programming one channel at a time to the transmitter. To single code program a transmitter read receivers setup instructions.

Operating Distance

An operating distance (in conjunction with our GLR27 series receivers) of 350 metres is possible.

The operating distance depends upon the receiver antenna and location. An independent test revealed the following ranges:

Range (Metres)	Receiver Antenna	Receiver Type
50	250 mm Long Wire	GLR27....
200	1000 mm Long Wire	GLR27....
350	ANT27M	GLR27....

Range tests were done in an open area test site with line-of-sight operation and the receiver antenna wire was fixed vertically, away from any metal objects.

Applications

The code programming becomes a powerful feature that allows the hand held transmitters to be used in many diverse applications such as security, gate operation, panic buttons, multiple on/off functions etc.

Battery or DC Supply

Battery operation is optimised using the built-in battery monitoring system. The battery monitoring system alerts the user when the battery level falls below the low battery voltage. The 1 Hz flash from the LED during a transmission indicates low battery. This is an indication that replacement of a battery is necessary.

The GLT2708NC has the option to operate from a 9-volt battery or DC power supply. DC power supply is connected to the 2-way terminal block. Do not connect the supply to the 2.5-mm coding socket since connection may damage the microcontroller. Also available with a 5-Pin header for inputs.

Unique Code System









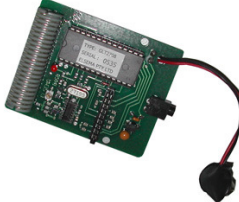
The microcontroller EEPROM allows large volume users to have a unique code. This enables Elsema to offer everyone “your own” radio control.

Case

The hand held GIGALINK™ transmitters are supplied with a case. There is also sufficient space on the rear of the case to place additional stickers such as your telephone contact, local authorities approval numbers etc.

The GLT2700NC and GLT2708NC are No Case versions. This allows the transmitter to be integrated according to your needs.

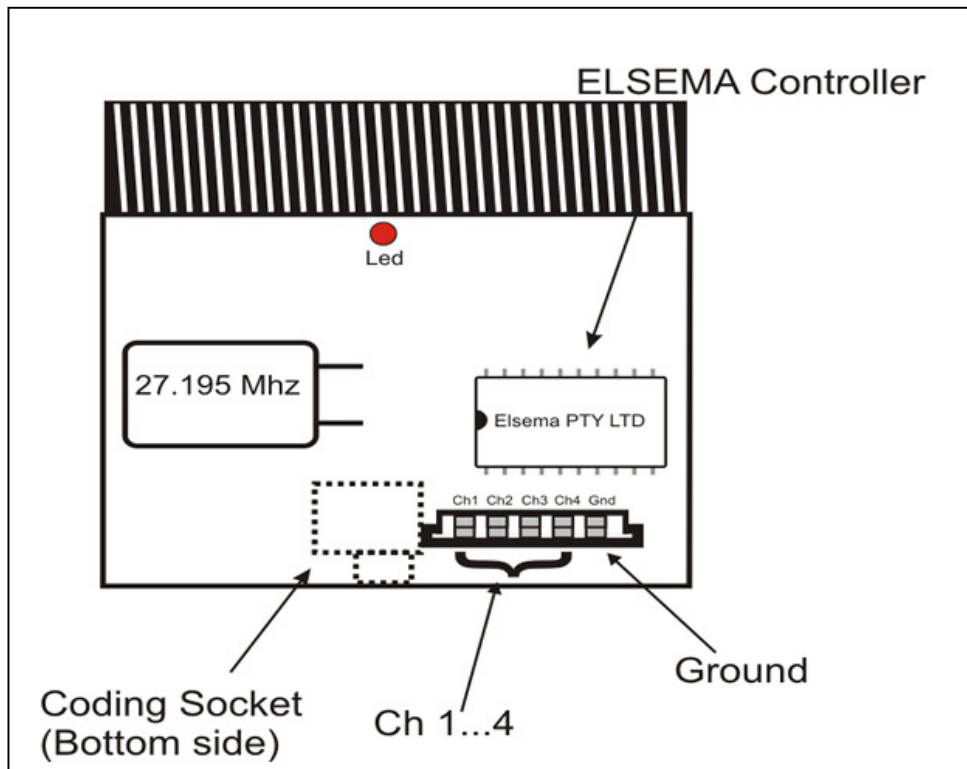
Products in the Range

				
GLT2700 Transmitter	GLT2701 1-Channel	GLT2702 2-Channel	GLT2703 3-Channel	GLT2704 4-Channel
				<i>NL: No label The Elsema Label is absent.</i>
GLT2708 8-Channel	GLT2716 2-Stroke, 16-Channel	GLT2700NC Transmitter, No Case Option Pin header	GLT2708NC 8-Channel, No Case	

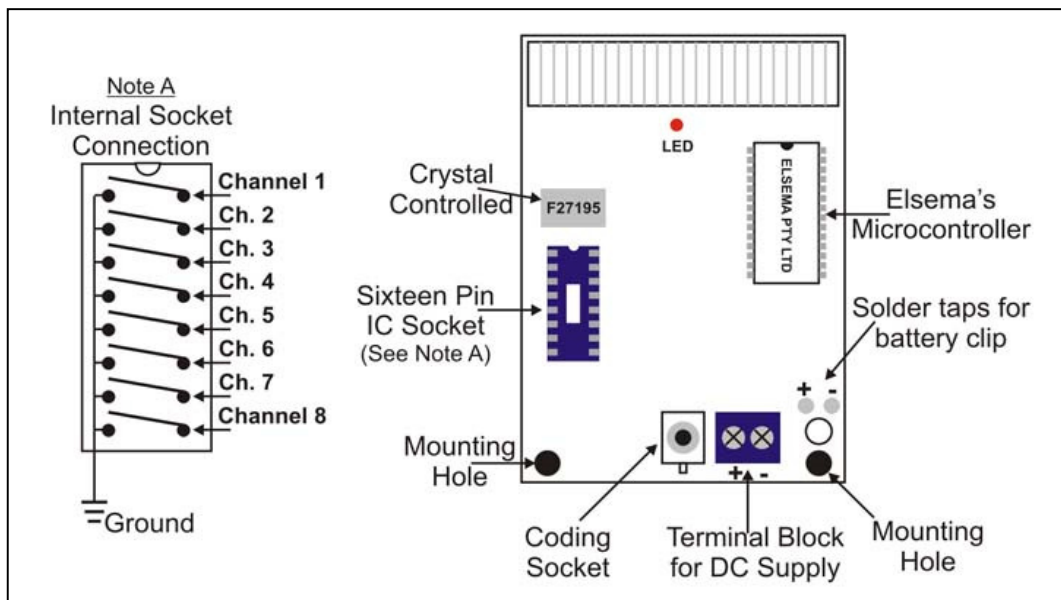
Technical Data

Model	GLT2701, GLT2702, GLT2703, GLT2704	GLT2708
Power Supply	9V Battery (Applied to the battery Clip)	9V Battery (Applied to the battery Clip) or 10-16VDC (Only applied to + & - terminals)
Current Consumption	Max 45mA at 8VDC (Only when transmitting)	Max 70mA at 12VDC (Only when transmitting)
Standby Current	10uA (Typical)	
Transmission Modes	Continuous - Transmits as long as the channel is activated.	
Battery Monitor	LED flashes at 1Hz, during transmission, when battery voltage is at 6.5V (flat 9V battery)	
Operating Frequency	27.195MHz	
Carrier Frequency Tolerance	Crystal controlled 30 parts per million	
Operating Temperature Range	-5 to 50°C	
Radiated RF Power Output	Refer to compliance test reports	
Antenna	Built-in 50mm long dilec rod	
Type of Emission	Narrow-bandwidth Frequency Modulation (5K00F1D)	
Freq Deviation Limiting	1600 - 1900Hz non-return to zero	
Modulation Freq	1.8kHz (1.737kb) (15% tolerance)	1.8kHz (0.56 ms/bit) (15% tolerance)
Necessary Bandwidth	±2.5kHz	
Digital Coding System	Microcontroller based 96-bit word	
Code Combination	4,294,967,296	
Digital Channels	1, 2, 3 or 4 channels. The type of membrane label determines the number of channels. Customers can fit custom-made membrane labels	8 channels. On board 16-pin IC socket. Channels are addressed by joining opposite side of the IC socket pins. Elsema has a 16-pin 35cm ribbon cable plug available
Dimension	81 x 56 x 24mm	130 x 67 x 27mm (GLT2708) 70 x 50 x 14mm (GLT2708NC)
Weight	51g excluding battery	60g (GLT2708) 35g (GLT2708NC)
Useable Receivers	GLR... series	
Useable Operating Range	Up to 350m; depending on receiver antenna and location	

Connection Diagram GLT2700NC

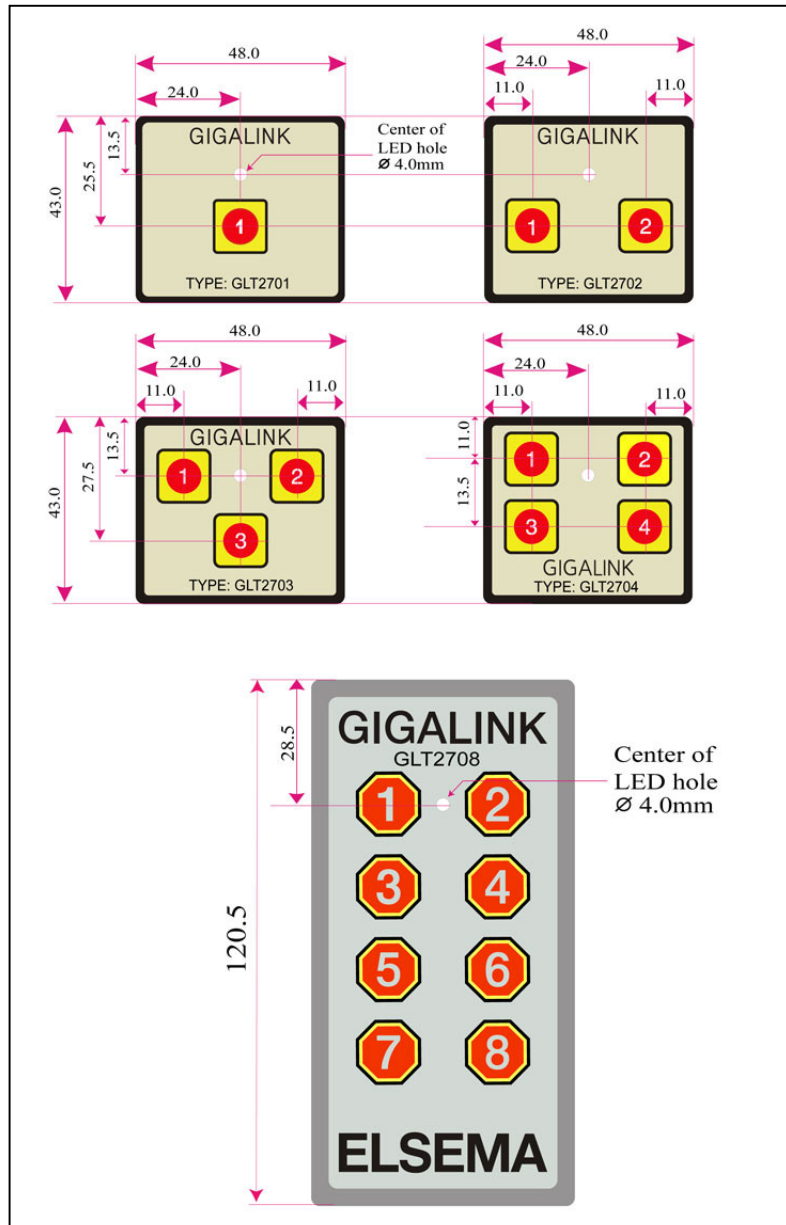


Connection Diagram GLT2708NC



Customised labels

Membrane is the front label with the channel etched/printed to it. Customers can purchase the GLT2700, which is a hand held GIGALINK™ transmitter without the front membrane. This enables the customers to fit their custom made membrane that can be a 1, 2, 3 or 4 channels. This has the advantage of customers only stocking one model to function as a 1, 2, 3 and 4 channels. Details of membrane dimensions are given below.



Customers who wish to have their own membranes can contact us with their designs on (+61) 2 9609 4668

You can have your own company logo and specific text printed on the membranes. e.g. Up, Down, Right and Left or Start, Stop etc.

The minimum quantity for custom membranes is 50 pieces per order.

REGULATORY COMPLIANCE STATEMENTS

American Users

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Notice

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the computer and receiver.
- Connect the computer into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Canadian Users

This Class [B] digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe [B] respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Users

This information Technology Equipment has been tested and found to comply with the following European directives:

- ETS 300 683
- I-ETS 300 220

Australian and New Zealand Users

This device has been tested and found to comply with the limits for a Class [B] digital device, pursuant to the Australian/New Zealand standard AS/NZ 4268:2012 set out by the Spectrum Management Agency.