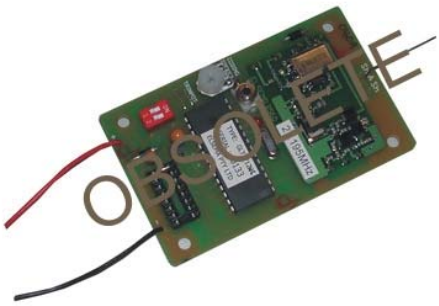
GLT2712 (OBSOLETE)

8-Channel, 12V 1W 27MHz Transmitter

Features

• Range up to 3km
• Over 4 billion code combinations
• High reliability, low current consumption, great flexibility
• Durable alloy enclosure available GLT2712E



Applications

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

GLT2712E
1W Transmitter Enclosed

This product is now Obsolete and is replaced by GLT271201E, GLT271202E, GLT271204E, GLT271208E, GLT271208NC

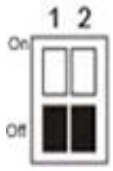
Care should be taken not to transmit without an

Description

The GLT2712(E) is designed to give a controlled range of up to 3 kilometres. The controlled operation can be either electronic or electrical operated device when used with the GLR-…. series of receivers.

The transmitter uses a specially programmed MICRO-CONTROLLER, which ensures the highest reliability, low current consumption on sleep mode (10uA) and greater flexibility. The GLT2712 is the transmitter without a case, while the GLT2712E transmitter is enclosed in an alloy metal case, which has an external supply connection, and a SO239 antenna socket provided.

The transmitter modes are user selectable by simply setting the 2-Way dip-switch on the transmitter board. Below is a summary of the modes.

	***Off Delay 2 – 62 seconds*** Transmitter will transmit a 1.5 second transmission burst and then stop for the "off delay" time selected. The "off delay" time is user selectable between 2 to 62 seconds by adjusting the trimpot of the transmitter board. If another channel is activated during the "off delay" period the new channel will be transmitted immediately. When the "off delay" time lapses, transmitter will transmit another burst. The transmitter will cycle (transmission and off delay) indefinitely, if at least one channel is activated and the supply is connected.
	***Off Delay 1 – 10 minutes*** Same as mode 1 except the "off delay" is user selectable between 1 to 10 minutes.
	***Continuous Transmission**** Transmitter will transmit continuously, if at least one channel is activated and supply is connected. A transmission limit of five minutes is used to comply with local radio regulations. To activate a receiver longer than 5 minutes, use a delay off feature in the receiver (GLR2701) and transmitter. The delay off feature in the receiver needs to be set more than the transmitter. This ensures that the transmitter keeps resetting the off delay in the receiver.
	***1.5 – 10 seconds one burst transmission*** Transmitter will transmit one burst and then go to standby or sleep mode. Adjusting the trimpot will vary the burst length. When the code is changed and supply is connected, transmitter will emit one new burst of the new code.
Sleep mode (10 uA) is activated when all 8-channels are OFF, this applies to all four modes.	

(Grey illustrates the position of the DIP switches)

* Refer to the website for further details. *http://www.elsema.com/conti trans.htm*

Technical Data

Power Supply	11-13.6VDC (for constant RF Output), screw type terminal. Absolute max 14VDC
Current Consumption	Nominal 300mA at 12VDC supply (transmitting) Nominal 12mA on standby Less than 10uA on Sleep Mode (only when no channel are activate otherwise it is on standby)
Operating Freq	27.195MHz (other freq available on 27.045, 27.145 & 27.455MHz. The 27.455 freq is not available for Australia)
Carrier Freq Tolerance	Crystal controlled 30 parts per million
Operating Temperature Range	-5 to 50°C
RF Power Output	1W, into 50 ohms SO239 socket @ 13.6VDC
Antenna	SO239 Socket is provided. Optimum performance use Elsema ANT27L antenna
Type of Emission	Narrow-bandwidth Frequency Modulation (5K00F1D)
Freq Deviation Limiting	1600 - 1900Hz non-return to zero
Modulation Freq	1.8kHz (0.56 ms/bit) (15% tolerance)
Spurious Transmission	-13dBm
Necessary Bandwidth	±2.5kHz
Digital Coding System	Microcontroller based 96-bit word
Code Combination	4,294,967,296
Digital Channels	On board 16-pin IC socket. Channels are addressed by joining opposite side of the IC socket pins. Elsema has a 16-pin 35cmm ribbon cable plug available (16W-1)
Dimension	140 x 60 x 34mm
Weight	GLT2712 - 60g GLT2712E - 250g
Useable Receivers	GLR... series
Useable Operating Range	Up to 3000m, depending on installation and type of antenna used. Recommended Antenna is Elsema ANT27M or ANT27L

Block Diagram

1/2/3/4 Channel