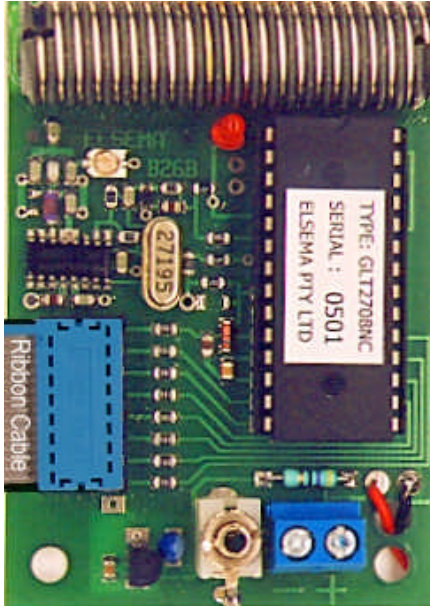


GLT2708NC/TEX16

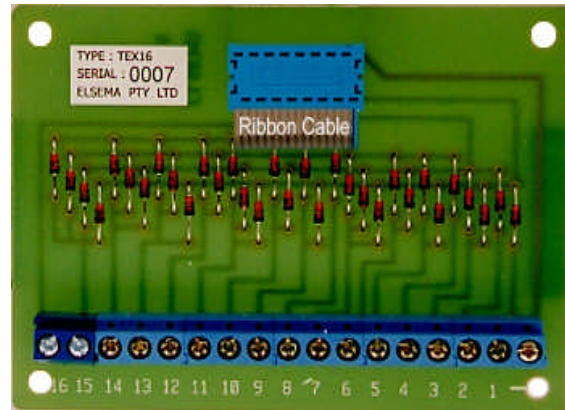
16-Channel 27MHz GIGALINK™ Combo Transmitter

The GLT2708NC/TEX16 combo transmitter is used with the GLR2708/REX16 to have a 16-channel remote control.

GLT2708NC



TEX16



The GLT2708NC is connected to the TEX16 using Elsema's 25-cm 16W-ribbon cable

The GLT2708NC/TEX16 microcontroller has a built-in channelised code programming system. Channelised code programming programs all the channels, from the sixteen channel receiver, to the sixteen channel transmitter. That is, channel one on the transmitter activates channel one on the receiver and alternatively. To channelise code program a sixteen channel transmitter read the GLR2708/REX16 receiver setup instructions.

The transmitter can be channelised code programmed without power connected.

Operating Distance

An operating distance (in conjunction with the GLR2708/REX16 receiver) 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	GLR2708/REX16
200	1000 mm Long Wire	GLR2708/REX16
350	ANT27M	GLR2708/REX16

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 GLT2708NC/TEX16 transmitter to be used in many diverse applications such as security, industrial machine monitoring, crane control, level monitoring, multiple on/off functions etc.

Case

The GLT2708NC/TEX16 is supplied without a case. This allows the transmitter to be integrated according to your needs.

TECHNICAL DATA ON GLT2708NC/TEX16

POWER SOURCE

BATTERY : 9-Volt Battery (Only applied to battery clip) or
DC SUPPLY : 10 to 16 VDC (Only applied to + - terminal)

CURRENT CONSUMPTION : Maximum 50mA at 12VDC supply on terminal (only when transmitting).

STANDBY CURRENT : 10 uA (typical)

TRANSMISSION MODES

Transmits as long as the channel is activated. Minimum transmission time is 640 msec.

BATTERY MONITOR : LED flashes at 1 Hz, during transmission, when battery voltage is at 6.5 volts (flat 9 volt battery) or terminal connection is at 9.0 volts

OPERATING FREQUENCY : 27.195MHz (Other frequencies available on 27.045, 27.145 and 27.455 MHz. The 27.455 frequency is not available for Australia).

CARRIER FREQUENCY TOLERANCE : Crystal controlled 30 parts per million.

OPERATING TEMPERATURE RANGE : -5 to +50°C

RADIATED R.F. POWER OUTPUT : 76.5 dB μ V/m at 3 metres.

ANTENNA : Built in 50mm long dilec rod.

TYPE OF EMISSION : Narrow-band-width Frequency Modulation (5K00F1D)

FREQUENCY DEVIATION LIMITING : 1600 - 1900 Hz non-return to zero.

MODULATION FREQUENCY : 1.8 kHz (0.56 ms/bit) (15% tolerance).

SPURIOUS TRANSMISSION : At least -60dB/carrier

NECESSARY BAND WIDTH : + - 2.5 kHz

DIGITAL CODING SYSTEM : Microcontroller based 96-bit word.

CODE COMBINATION : 4,294,967,296

DIGITAL CHANNELS : On board 16-way terminal block with ground connection

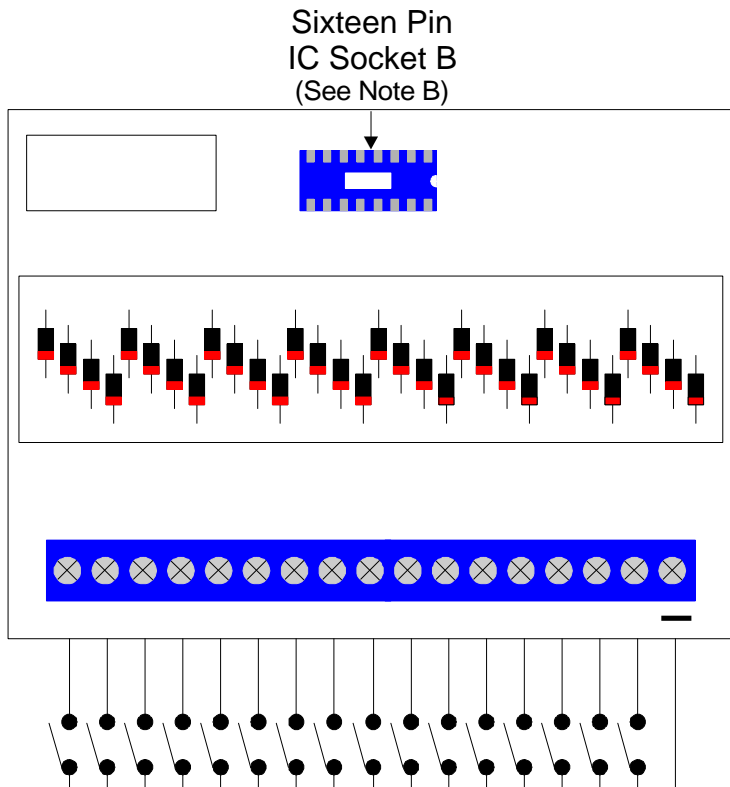
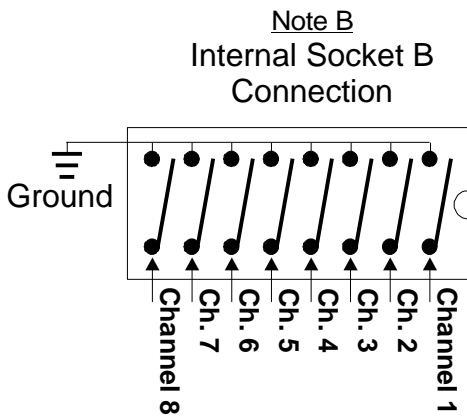
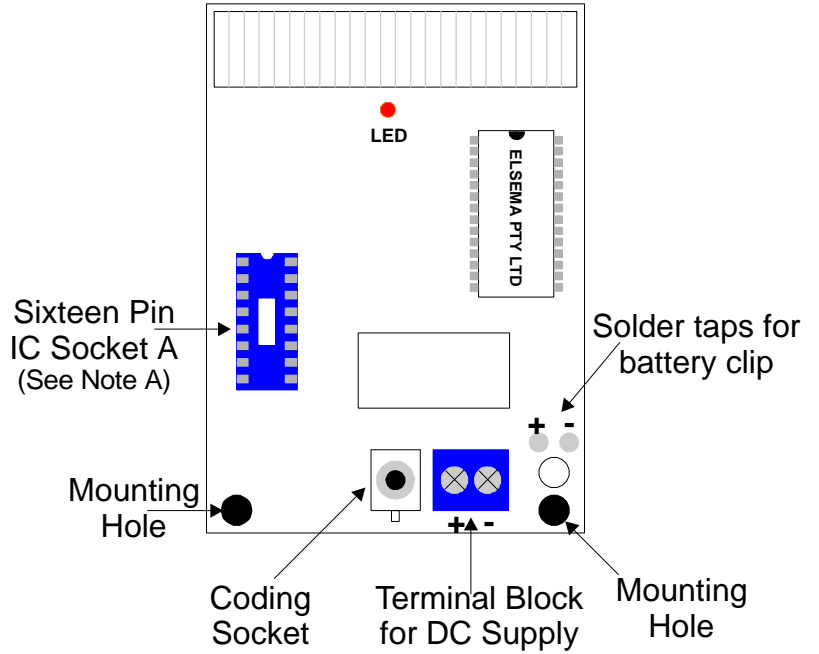
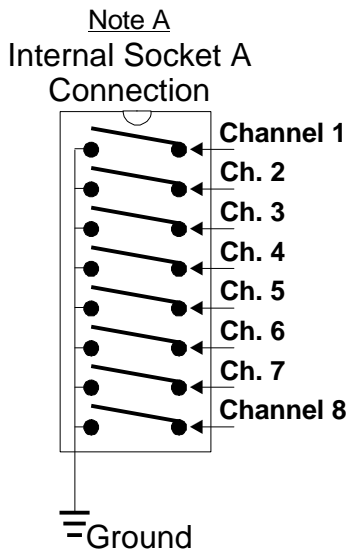
DIMENSIONS : GLT2708NC:70 x 50 x 14 mm, TEX16: 96 x 70 x 14 mm

WEIGHT (GLT2708NC AND TEX16) : 75 grams

USABLE RECEIVERS : GLR2708/REX16

USEABLE OPERATING RANGE : Up to 350 metres. Depends on receiver antenna and location.

GLT2708NC/TEX16 CONNECTION DIAGRAM



IC socket A and socket B can be connected using Elsema's 16W ribbon cable. Channel one on the GLT2708NC needs to be connected to channel one on the TEX16. Observe polarity of ribbon cable.