

### Wireless Telemetry Active Repeater

#### Features



- Repeater module to increase range and overall coverage
- Allows T24 transmission to span around obstacles
- IP65 Rated
- Integrated PCB antenna
- Simple configuration via PC using base station & T24 Toolkit software
- Battery power supply or external power supply
- 1 year manufacturer's warranty



#### Introduction

The T24 Active Repeater module will enable the T24 range of acquisition modules to span around obstacles or increase range or coverage.

The repeater acts as transparent link between acquisition modules and the receiver, powered by

either a pair of alkaline 'D' Cells or an external power supply (5-18 Volts). The repeater will allow messages to be repeated once which can effectively double the radio range. Adding multiple repeaters will not increase the range but can increase overall coverage.

**KEY:** T24 Provider *e.g. Acquisition Module*    T24 Consumer *e.g. Base Station or Handheld*    T24 Repeater T24-AR    Obstacle *Building, Wall etc*

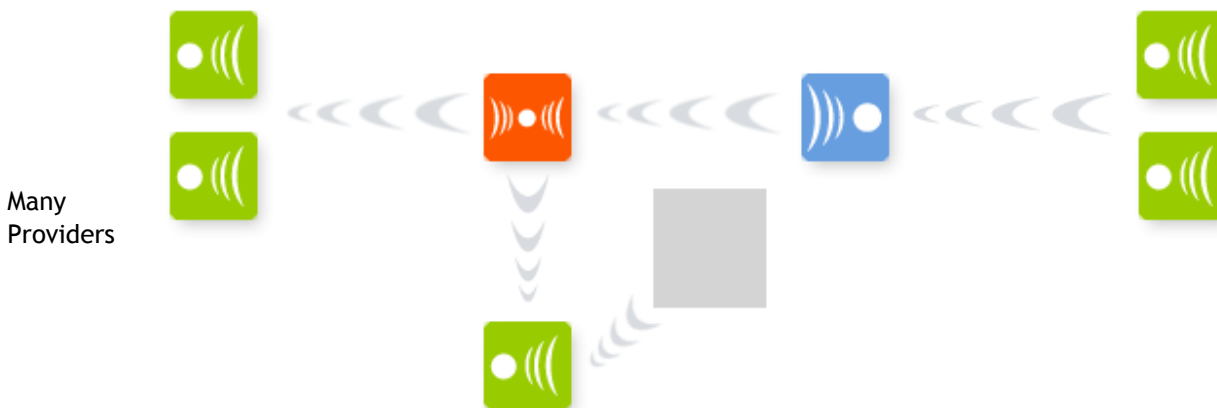
#### Increase Range



#### Span Obstacles



## Combined Solutions



## Specification

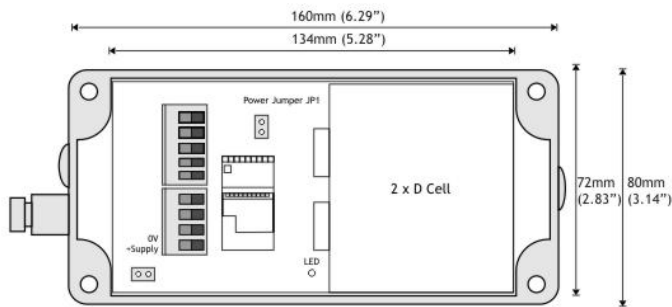
Electrical	Min	Typical	Max	Units
Battery Supply voltage	2.1	3.0	3.6	Vdc
External Power Supply Voltage	5		18	Vdc

Environmental				
IP rating		IP65		
Operating temperature	-40		+65*	C
Storage temperature	-40		+85	C
Humidity	0		95	%RH

\*Check operating temperature of cells intended for use.

## T24- AR Mechanical Dimensions

- Case dimensions 160 x 80 x 55mm
- Case materials Light grey ABS with IP65 cable glands
- Terminals 2.5mm, rising clamp field terminals
- Accessibility All electronics accessible by removing lid
- Power Supply From 'on-board' batteries (2 x D size cells Alkaline) please note these batteries are not included OR External Power Supply (5-18V)



Depth 55mm  
 2 x IP65 Gland for cable size 4.5 to 7mm (0.16" to 0.27")  
 The 4.5mm (0.18") holes for the mounting screws in the base are directly behind the screws for the lid, centres are 148 x 50mm (5.82 x 1.96")

**CE**, Complies with EMC directive. 2004/108/EC  
 The Radio Equipment and Telecommunications Terminal Equipment (R&TTE) Directive, 1999/5/EC.



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Designed, Manufactured  
& Supported in the UK

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