



# TIM 2015 Speaking Clock

Your very own time-of-day announcer!



Measuring just 5 x 2 x 7 inches, **TIM 2015** is a complete self-contained time announcer that connects to any telephone line, answers telephone calls and speaks the current time in hours, minutes and seconds exactly like the phone company machines used to do – using authentic voices from the past. It comes with more than a dozen different voices (U.S., British, Australian and European), with more to follow. Accuracy is to within 1 second thanks to synchronisation by GPS, Wi-Fi or MSF/DCF77 radio timecode – or within 2 seconds if you rely on the built-in real time clock (RTC). It self-adjusts for normal and daylight-saving time and can even control slave clock dials if you have these.

**TIM 2015** runs off any standard 9 to 12-volt power supply (750mA). There are just two user controls: a settings selector (left-hand knob) and an on/off and volume control (right) for the built-in monitor speaker.

**TIM 2015** is a do-it-yourself construction project that will not challenge any competent electronicist, technician or radio ham. You can buy a 'bare bones' kit of parts you cannot get elsewhere for around £67; this price includes insured and tracked shipping, high-quality PCB, programmed microcontroller, Mitel phone line interface, micro SD Card with speech files, plastic case, data CD, front & back overlays and LCD surround. You can buy the other parts on eBay for around £130, in stages if you like, as you complete the project.

**TIM 2015** is a collaborative international *not-for-profit* project, created by hobbyists for hobbyists. The design is entirely professional, with full technical documentation supplied. It is also a spare time project, so please be patient if we take a couple of days to respond.

Why is it called **TIM 2015**? Well, 2015 was the year in which we designed it and 'Tim' is what everybody calls the speaking clock in Britain (back in the day you dialled the letters TIM to get the time).



The clear LCD screen indicates time, date, synchronisation method (radio, Wi-Fi or GPS), winter or summer (daylight saving) time, etc. etc.

## TIM 2015 IS DESIGNED



AND MADE IN BRITAIN

For further information or to place an order, contact Andrew Emmerson ([andrew\\_emmerson@btinternet.com](mailto:andrew_emmerson@btinternet.com)).

Our website is still under construction, because right now we're too busy sending orders and editing new (well, old!) speech files for **TIM 2015**.

**Seeing HEARING is believing!**

As supplied to telephone museums, preserved railways and Cold War bunker museums