

## **GB3IH Logic - user guide.**

The repeater controller is based on an Atmel328P.

A morse ident is sent every 10 minutes when in use or up to 10 minutes after last access. When the repeater is idle the morse speed is set to 18WPM, otherwise 25WPM.

From cold the repeater requires > 2 seconds of valid carrier to latch the repeater. If the repeater is not latched the transmitter will terminate after 1 second. Once latched the repeater will send 5 re-access pips spaced 2 seconds apart. If the last valid carrier was > 3 seconds the letter K precedes the re-access pips. The K is replaced with the morse ident (at 25WPM) if the ident timer has expired.

The timeout is set to 10 minutes. The timer resets on either the K or the first access pip (which ever comes first). Stations that don't allow the timer to reset will inherit the previous stations timer. When a station exceeds the timer the repeater will send TO in morse code and close down. Once the offending signal has cleared the repeater will send OK in morse code and return to normal operation.

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