

**CLOCK EXTRACTION DEVICE WITH DIGITAL PHASE LOCK,  
REQUIRING NO EXTERNAL CONTROL**

ABSTRACT

The invention relates to a device for extracting a clock signal from a baseband serial signal, including an injection-locked oscillator (19), a phase-locked loop (25) including a digital phase detector (26). The oscillator (19) includes a digital input for controlling the value of its natural frequency, and the phase-locked loop (25) includes a counting circuit (30, 35) aggregating the relative values of the digital signal supplied by the digital phase detector (26) and supplying a control signal in digital form for the oscillator (19).

Fig. 1