

# Citifax Teletext Generator CFG-100

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## Product Description

The Citifax CFG-100 is a compact unit which generates Teletext displays on 625-line standard Teletext Television sets. It does this by producing a video output signal which contains World Standard Teletext data during the frame blanking interval, just like regular TV stations do! The difference is that the CFG-100 picture content is blank, and there is no sound content, but in all practical respects the results are the same.

It contains sufficient memory to hold up to 100 pages. These are fed to it via the main serial port. Once loaded, the generator cycles through its list of pages, sending them out in succession. These can then be viewed in the normal way on a TV, or bank of TV's, fed from it. Each TV can be set to show a different page if required. Note that the output is base band video, not RF, so does not directly feed the aerial sockets. It is designed for professional applications where video distribution amplifiers or RF Modulators are present, such as the financial and betting industries, although it can be used elsewhere of course.

It is powered by a 9 to 12 Volt DC external power supply and features a built-in battery backed real time clock and calendar, which can be set via the serial port, and is then used to generate the date and time at the top of each page. LED displays on the front panel show power and status.

The auxiliary serial port is provided for future enhancements such as Datacast (Packet 31) services, when it would be fed by a separate data feed from the page source.

### **Technical Specification**

- World Standard Teletext compatible, 625-line 50Hz systems
- Blank Raster video signal without sound sub-carrier signal
- Output 1v p-p video into 75 Ohms from panel mounted BNC Socket
- Command and Data input on 9 Way D socket with screw locks
- Auxiliary serial port for future developments (same pin-out)
- Connection to PC serial port via straight 1:1 cable
- Serial Data rate default 9600 Baud, N,8,1
- Connect to PC USB port via USB to Serial adapter if required
- Simple ASCII commands for time, date etc.
- Crystal Controlled sync and data generation
- Line rate 15.625 kHz, frame rate 50Hz
- Teletext Bit Rate nominal 6.9375 Mb/s
- High speed RISC processor with integral FLASH memory
- Built in 'CITIFAX Test Page' to assist engineering set-up
- Storage capacity 100 Pages (128K System RAM)
- Powered by 9 to 12 Volts DC, 400 mA from external PSU
- Robust extruded aluminium case in black finish

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CITIFAX LIMITED  
43 Midge Hall Drive  
Rochdale  
Lancashire  
OL11 4AX  
United Kingdom

Website [www.citifax.co.uk](http://www.citifax.co.uk)  
email [info@citifax.co.uk](mailto:info@citifax.co.uk)  
Telephone +44 7005 344631  
Facsimile +44 7074 CITIFAX

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