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# VME31: DCF77 Radio Clock (VME bus)

DCF77 Radio Clock VME31 with VME bus interface

DCF77 Radio Clock VME31 with VME bus interface

## **Important Note**

This product is no longer available. We will of course continue to provide support for units that have already been purchased and are still in use. Please contact our [1] Sales Team for further details.

## **Key Features**

- Periodic interrupts
- 2,5mm LED-display
- VME Bus interface
- Reception status indicated by LED
- Buffered hardware clock
- Settable Base Address



# **Characteristics**

Type of Antenna DCF77 indoor antenna Al01  Display 8-digit, 7-segment LED display (2.5 mm)  Synchronization Time 2  Accuracy free run Accuracy of the quartz base operation: ±1·10·5  Reception Monitoring Incoming time string undergoes multiple checks Plausibility test using two full consecutive time strings  Interface VME Bus, A16; D8; Slave Access: Short Supervisor I/O (2Dh), Short Non-Privileged I/O (29h) Interrupt Levels: IRQ1IRQ7, programmable Periodic Interrupts: None, 10msec, 100msec, 1sec, 10sec, 1min, 10min, 1hour, programmable  Serial Time String Output 16 bytes in 1k-block, BCD coded Byte  Interrupts None, 10msec, 100msec, 1sec, 10sec, 1min, 10min, 1hour, programmable  Dimensions of the front standard: 4HP/20mm, 6U/261,8mm, alternative: 4HP/20mm, 3U/128.4mm  Electrical Connectors 96-pin DIN 41612 connector  Antenna Connector SMB subminiature coaxial connector  Power Consumption 1,6 W  Backup Battery Type In case of supply voltage failure the on-board RTC keeps the time based on XTAL fapprox. 4 weeks  Cable Type coaxial cable RG174 for indoor use (SMB-, BNC-connector)  Operating Voltage +5 V DC  Current Draw ca. 320 mA  Board Type Eurocard  Doperational: 0 - 50 °C (32 - 122 °F)		
Free running state visualized by LED after switching to free running quartz clock motors.  Type of Antenna DCF77 indoor antenna Al01  Display 8-digit, 7-segment LED display (2.5 mm)  Synchronization Time 2  Accuracy free run Accuracy of the quartz base operation: ±1-10-5  Reception Monitoring Incoming time string undergoes multiple checks Plausibility test using two full consecutive time strings  Interface VME Bus; A16; D8; Slave Access: Short Supervisor I/O (20h), Short Non-Privileged I/O (29h) Interrupt Levels: IRQ1IRQ7, programmable  Periodic Interrupts: None, 10msec, 100msec, 1sec, 10sec, 1min, 10min, 1hour, programmable  Periodic Interrupts: None, 100msec, 1sec, 10sec, 1min, 10min, 1hour, programmable  Dimensions of the front standard: 4HP/20mm, 6U/261,8mm, alternative: 4HP/20mm, 3U/128.4mm  Electrical Connectors 96-pin DIN 41612 connector  Antenna Connector SMB subminiature coaxial connector  Power Consumption 1,6 W  Backup Battery Type In case of supply voltage failure the on-board RTC keeps the time based on XTAL fapprox. 4 weeks  Cable Type coaxial cable RG174 for indoor use (SMB-, BNC-connector)  Operating Voltage +5 V DC  Current Draw ca. 320 mA  Board Type Eurocard  Board Dimensions 160 mm x 100 mm, 1,5 mm Epoxy  Supported Temperature Operational: 0 -50 °C (32 - 122 °F)	Receiver Type	· · · · · · · · · · · · · · · · · · ·
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,	Supported Temperature	Operational: 0 - 50 °C (32 - 122 °F) Storage: -20 - 70 °C (-4 - 158 °F)



Supported Humidity	Max. 85 % (non-condensing) at 40 °C
Contents of Shipment	Scope of supply includes an active ferrite antenna [2]Al01 and 5m of RG174 coaxial cable with BNC connectors.  Optional: [3]AW02 with RG58 and patch cord, other length of cable

#### Manual

The English manual is available as a PDF file: [4] Download (PDF)

#### Links:

- [1] mailto:sales@meinberg.de
- $\hbox{\cite{thm:linear:li$
- $\hbox{[3] https://www.meinbergglobal.com/english/products/dcf77-outdoor-antenna.htm}$
- $\hbox{[4] https://www.meinbergglobal.com/download/docs/manuals/english/vme31.pdf}$