

MEDICAL INNOVATIONS CUSTOMIZED TO YOUR NEEDS!

BDM75

The next generation of Corscience Professional Defibrillation Module

Defibrillators are used for treatment of cardiac arrhythmia by delivering a current pulse to the heart of a patient. This current pulse helps re-establish normal contraction rhythms in the heart. Corscience has been an active B2B technology provider in the area of defibrillation for more than 15 years now. Motivated by the desire to serve our customers with high class solutions in our fields of competences like defibrillation, we started the next generation of a professional defibrillation OEM board — the BDM75.

There is a strong need for additional features and reliable technology on today's market since the needs of physicians and trained personnel is continuously rising. Therefore, the BDM75 provides the application for transcutaneous pacing, cardioversion and is now CF classified.

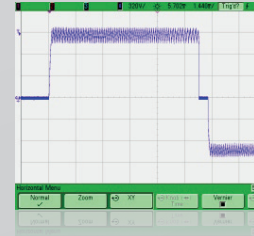
Recent advances in defibrillation showed that the most important parameters for a successful defibrillation are current density at the patient's heart and the duration of the shock. The BDM75 controls both the current and the duration of the current pulse.

Corscience is providing all necessary documents for approval process and is keeping all documents up-to-date to the latest regulations and standards.

With the BDM75 our customers can realize professional defibrillators but also automated external defibrillators. The board is easily integrated and only needs a power interface, a communication interface (UART) and a few digital in- and outputs (GPIO) signals. With the new BDM75 a firmware update for devices already on the market is possible.

All Corscience defibrillation technology features Corscience proven ECG algorithms for processing and analyzing ECG data acquired through the defibrillator electrodes or through third-party systems.

We offer a unique but easy integration of the BDM75 defibrillator board by providing technology on flexible license models. Please contact the Corscience sales team for more information on defibrillation, algorithms and further technology. We are looking forward to support your ideas and projects with our technology.



Technical Information Professional Module

- Physical characteristics
Module-size: 170 x 242 x 40 (LxWxH) mm; Weight: 600 g
- Operating conditions
Temperature: - 20°C – +70 °C
Relative humidity: < 95 % non-condensing
Air pressure: 570 – 1060 hPa
- Defibrillation
Current-controlled/energy-triggered biphasic waveform programmable between 0.5 – 300 J (max. energy depending on used HV capacitor)
- Communication interface
UART/230400 Baud rate
- Patient connection
Defibrillator protected
- Transcutaneous Pacing:
 - 0 - 200 mA in steps of 5 mA
 - 30 - 180 pace pulses
- Supply Voltage: 10 V - 17 V
- Input Current: max. 10 A

Available Analysis

- Heart-rate measurements (30 – 300 bpm)
- VF/VT detection (Sensitivity > 94 %; Specificity > 98 %)
- Asystole detection
- Patient detection
- QRS-Marker
- Impedance measurements
- Motion detection