

AMV Technics TECHNIC I

RTEMS (<http://www.rtems.com>) is an Open Source RTOS providing a powerful development and run-time environment that promotes the production of efficient real-time embedded applications.

Features:

- Scalable Architecture
- Modified GPL License
- Multiple APIs - Classic, POSIX
- Event-driven multitasking
- Priority-based, preemptive scheduling
- Responsive Interrupt Management
- Optional Rate Monotonic Scheduling
- Priority Inheritance and Ceiling Protocols
- Intertask communication and synchronization
- Homogeneous and heterogeneous multiprocessor systems
- Reentrant ANSI C Library
- Add-on libraries including Python, Lua, and Tcl
- High performance BSD TCP/IP Stack
- Protocols: TCP, UDP, BOOTP, ARP, ICMP
- Servers: FTPD, HTTPD, TELNETD
- Clients: DHCP, NTP, DNS, TFTP

Processors Supported:

M680x0	ix86	Coldfire	ARM
M683xx	Pentium	MIPS	Blackfin
PowerPC	SuperH	SPARC	H8
NIOS2		SPARC64	

Available Services:

- Training
- Standard Support
- Legacy Support
- RTEMS Application Assistance
- Board Support Package Development
- Application Design and Development
- Ports to New Architectures
- System Architecture Design

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The AMV Technics TECHNIC I high precision syringe pump is intended for the application of fine, accurate drug and solution dosage of small volumes using disposable syringes at 10, 20, 30, 50 ml of volume. The TECHNIC I has been certified for use in multiple European countries.

- Easy handling with dynamic help
- Infusions history
- High user comfort
- USB 1.1 support compatible with 2.0
- IrDa support for wireless printing
- Large Graphic LCD display
- Support for simple dispense flow rate calculation based on volume, time, concentration and weight
- Anti-bolus system for reduction of maximum overpressure to 10kPa in a case of occlusion
- Programmatic or manual bolus dispensing
- First syringe pump equipped with built-in monitoring and informative system
- Dynamic pressure system for quick indication of the set disconnection
- Infusion archive stores information about all foregone infusions for 2 years, searching proceeds manually or according to date
- Extensive medicament library which can be updated by a user including creation of dispense limit for individual medicaments, 1000 items
- Unit keyboard operates in the same way as the mobile phone keyboard
- Special positioning clamp from which the unit can be detached very quickly by the handle mechanism, it ensures high modularity and swift replacement



Designed by Pikron s.r.a, the TECHNIC I uses an advanced two-channel, two-processor technology based on state-of-the-art 32-bit Motorola/Freescale

processor and 16 bit Texas Instruments controller to ensure high safety and precision of the applied infusion. Running on RTEMS, it includes 32 MB RAM and 256 MB Flash Disc memory provides high user's comfort including the infusion process monitoring function that allows an instant view of an information on a graphic display.



References:

- AMV Technics Home Page
- <http://www.amvtechnics.cz>
- TECHNIC I Home Page
- <http://www.amvtechnics.cz/index.php?navi=products&sel=medical&lng=en>
- Pikron s.r.a. Home Page
- <http://www.pikron.com/>
- RTEMS Wiki Page
- http://www.rtems.com/wiki/index.php/AMV_Technic_I