RTCU AX9 series
Product Information Bulletin

The RTCU AX9 series is the successor to the current RTCU A5i and RTCU A9i product line and hosts a long range of new advanced features as expected from a true member of the X32 family!

This Product Information Bulletin outlines the new features of the RTCU AX9 series, and the target audience is therefore primarily customers already using the popular RTCU A5i and RTCU A9i products.
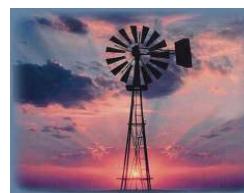
The RTCU AX9 series will be available in two versions named *RTCU AX9 eco* and *RTCU AX9 pro*, differentiated in terms of features and functionality. Current users of the RTCU A5i/A9i can choose the specific RTCU AX9 product variant depending on the exact requirement of the application. Full backwards compatibility has been insured, so that applications already developed for the RTCU A9i can be binarily executed without need for recompilation. RTCU A5i based applications will require a simple re-compilation with no source code changes. The software compatibility in combination with the fact, that the RTCU AX9 series hardware-wise is a full superset of the RTCU A5i/A9i makes the upgrade and transition to the new RTCU AX9 series a true pleasure and a safe journey!

The improvements on the RTCU AX9 series compared to the RTCU A5i/A9i:

➢ X32 improvements such as: Huge memory for code/data and up to 10 times faster execution.
➢ Advanced X32-based power-management for prolonged operation in low-power modes.
➢ Quad-band GSM with support for M2M chip.
➢ Voice, GPRS and CSD handled simultaneously by an enhanced GSM host implementation.
➢ Internal GSM quad-band antenna or SMA connector for external antenna.
➢ Medium range ISM RF Transceiver (868 Mhz) with internal antenna
➢ Wide AC/DC power range from 85..265 VAC / 8..36 VDC.
➢ Dedicated high-speed USB programming port.
➢ Two RS232 Serial ports
➢ One standard dedicated RS485 port (optional RS485 for a total of two).
➢ Expandable I/O with full MODBUS support.
➢ Micro SD-CARD reader with FAT32 file-system.
➢ Internal flashdrive with FAT32 file-system.
➢ Optional expanded flash memory (XF8) *future option*
➢ Additional 1 digital input, for a total of 4 relay outputs and 5 digital inputs.
➢ The 4 analog inputs and 4 analog outputs. Can operate as 0..10V or 0..20 mA.
➢ Rechargeable battery back-up as a standard feature (medium/high capacity available)
➢ Internal expansion slot for possible future modules: Zigbee, Ethernet/WiFi, Tetra radio, etc.
➢ External accessories: Bluetooth, Ethernet/WiFi, Camera, Data terminal & Modbus modules.
➢ Mechanical improvements includes more space for wiring and additional PG cable entries.

Not all features are available on the RTCU AX9 eco