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ARMIC30, CAN industrial controller using STR730 microcontroller

Data Brief

Features

- 32bit ARM7TDMI core based microcontroller used STR730 @ 36MHz
- RS-232 interface with 15kV guaranteed ESD protection
- RS-485 interface using high-speed transceiver
- CAN communication up to 1Mbps
- I2C, SPI, JTAG communication connectors
- Industrial voltage level (24VDC) power supply
- Additional general purpose connectors suitable also for a motor control and a PLC applications

Description

This evaluation board is designed with a 32-bit STR730F microcontroller based on a powerful ARM7TDMI core. The STR730F provides an extensive number of peripheral functions and enhanced I/O capabilities as it is equipped with RS-232, RS-485, CAN, SPI, I²C and JTAG communication interfaces. This board is suitable for industrial applications and can be used, in particular, as a reference design for the development of the programmable logic controller (PLC) section in factory automation. This solution is implemented on a double-faced board with two copper layers only for increased cost-effectiveness.

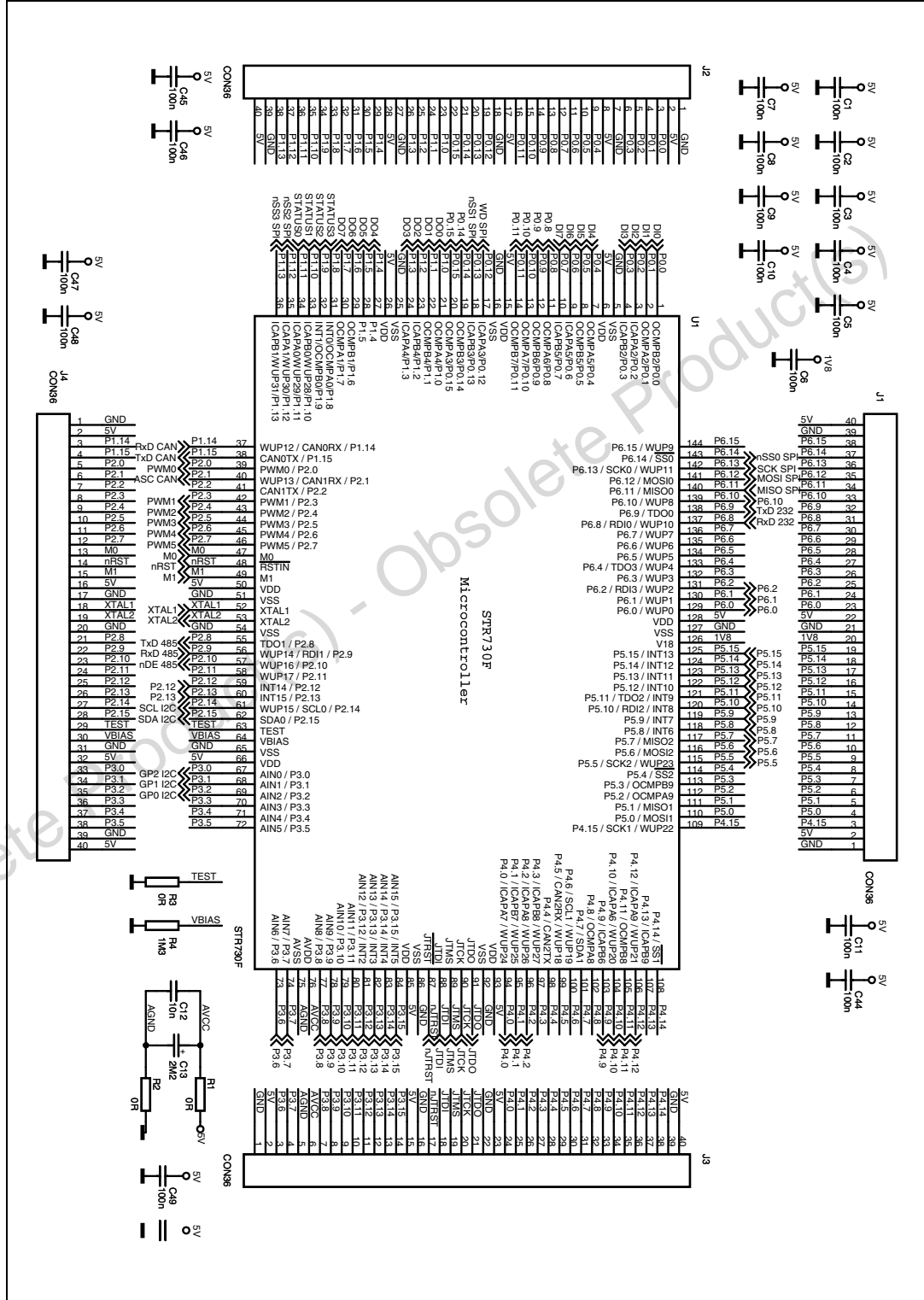


Block diagram

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1 Block diagram

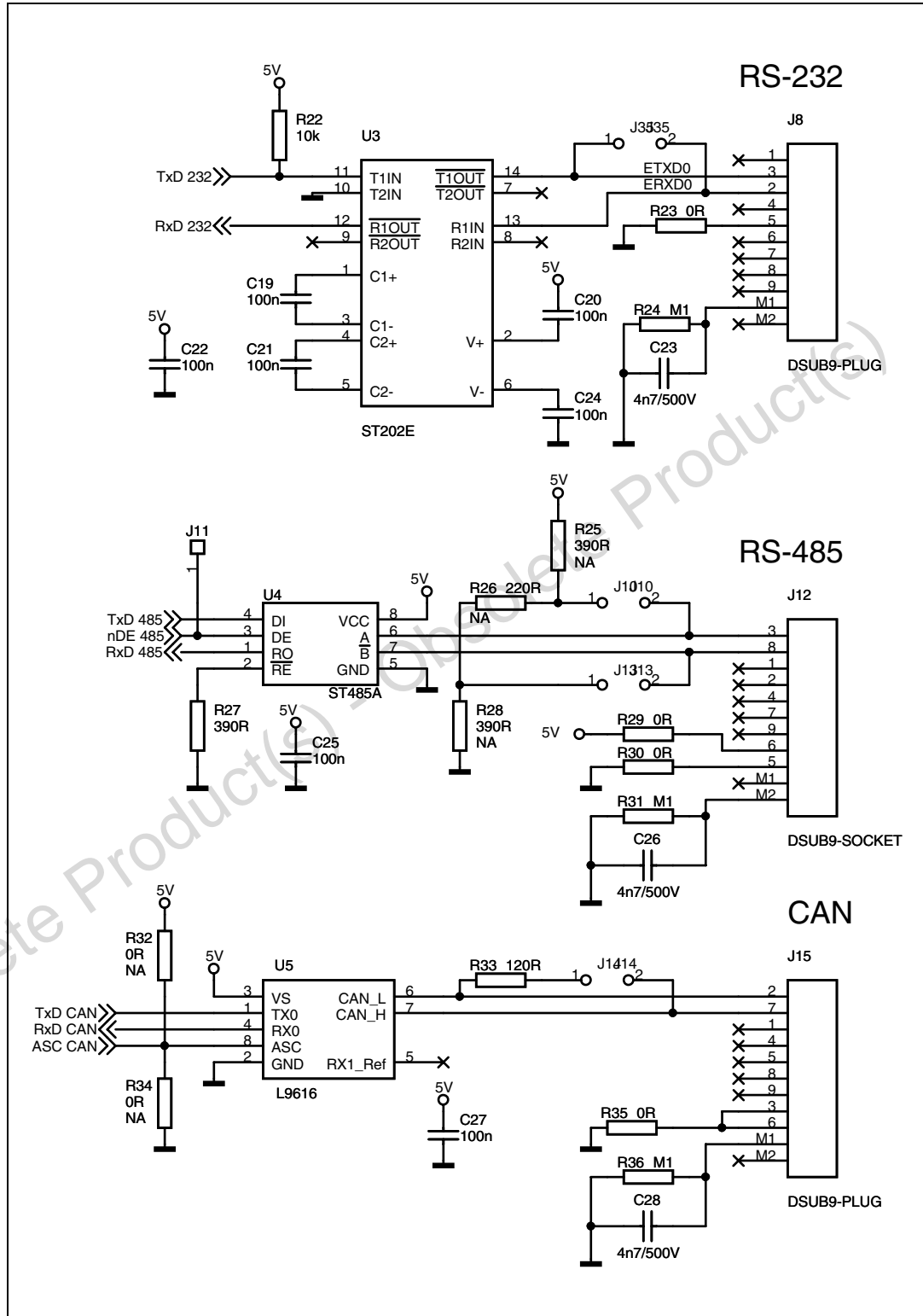
Figure 1. Schematic



Block diagram

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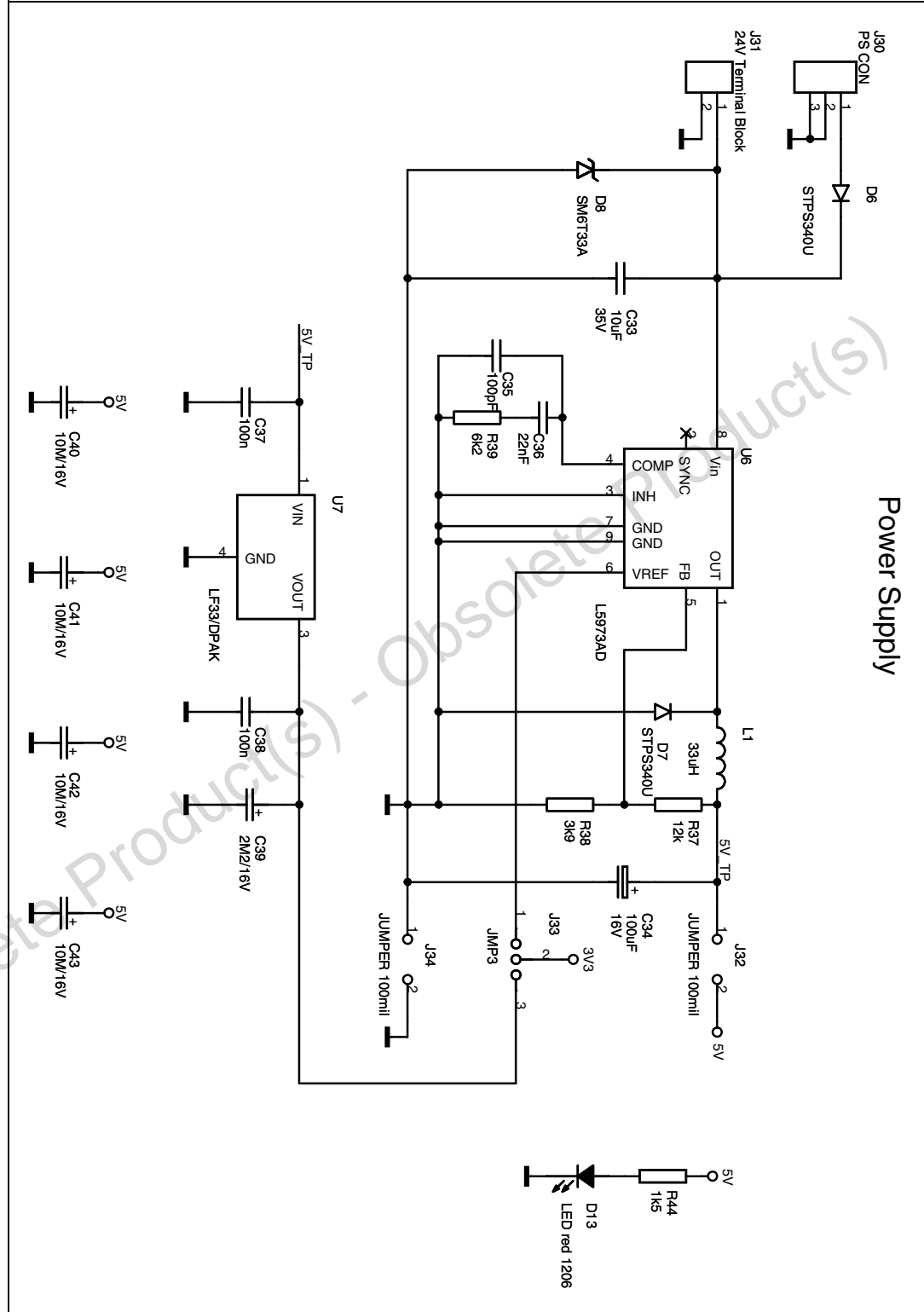
Figure 3. Schematic 3



Block diagram

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Figure 5. Schematic 5



2 Revision history

Table 1. Document revision history

| Date | Revision | Changes |
|-------------|----------|-----------------|
| 22-Oct-2007 | 1 | Initial release |

Obsolete Product(s) - Obsolete Product(s)

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