



THE DATASHEET OF STEVAL-IPT002V1





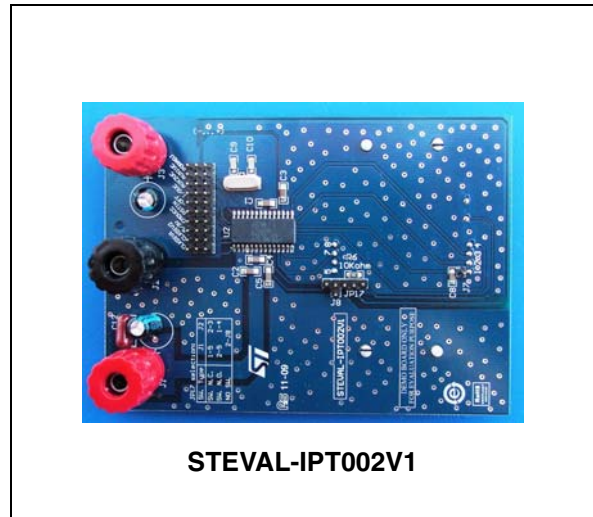
STEVAL-IPT002V1

Smartcard interface demonstration board based on the ST8024

Data brief

Features

- Compatible with the NDS conditional access system
- IC card interface
- 3 V or 5 V supply for the IC (V_{DD} and GND)
- DC-DC converter for V_{CC} generation, separately powered from a $5\text{ V} \pm 20\%$ supply (V_{DDP} and PGND)
- Thermal and short-circuit protection on all card contacts
- Enhanced ESD protection on card side ($> 6\text{ kV}$)
- ISO 7816, GSM11.11 and EMV (payment systems) compatible
- RoHS compliant

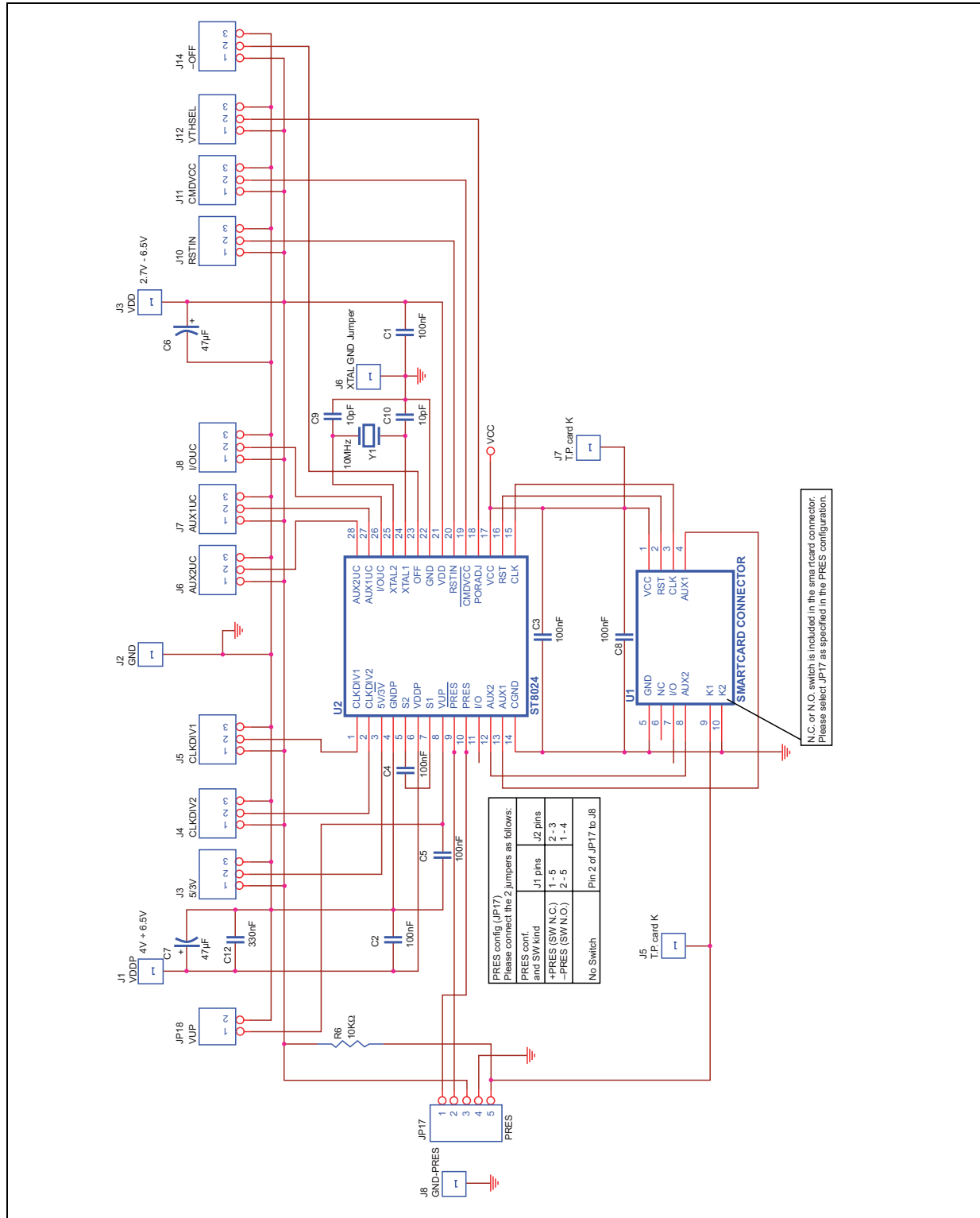


Description

The STEVAL-IPT002V1 demonstration board is based on the ST8024 smartcard interface. The ST8024 is designed to minimize the complexity of microprocessor hardware and software in applications requiring a smartcard, such as set-top boxes, electronic payment systems, pay TV, and identification cards. It is developed in accordance with NDS (News Digital Systems) conditional access requirements, and implements all blocks and procedures necessary for card activation/deactivation and checking.

1 Schematic diagram

Figure 1. STEVAL-IPT002V1 schematic diagram



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
09-Nov-2009	1	Initial release.

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