Panel-Card Connector

Technical Reference

Panel-Card Connector: Technical Reference

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Table of Contents

List of Figures

1. Panel-Card Connector

The Panel-Card Connector was designed to serve the Panel-Card 57/70 as an evaluation platform and as a deployable base board for all Panel-Cards. It can also be used to develop and deploy Stamp9261 and Stamp9G20 systems.

1.1. First Steps

The Panel-Card Connector makes it easy to put the Panel-Card/Stamp to use. The first steps involve the following:

- connecting the board to the Panel-Card/Stamp-Adaptor according to Figure 1.1, “Panel-Card Connector setup”
- connecting the wall adapter to the main supply and to the board
- connecting RS232 IF-Module via the serial cable to a COM port of a PC
- starting a terminal program for the selected COM port at 115200 baud, 8N1
- starting the module by flipping the power switch
- boot messages of the module are now expected to appear on the terminal

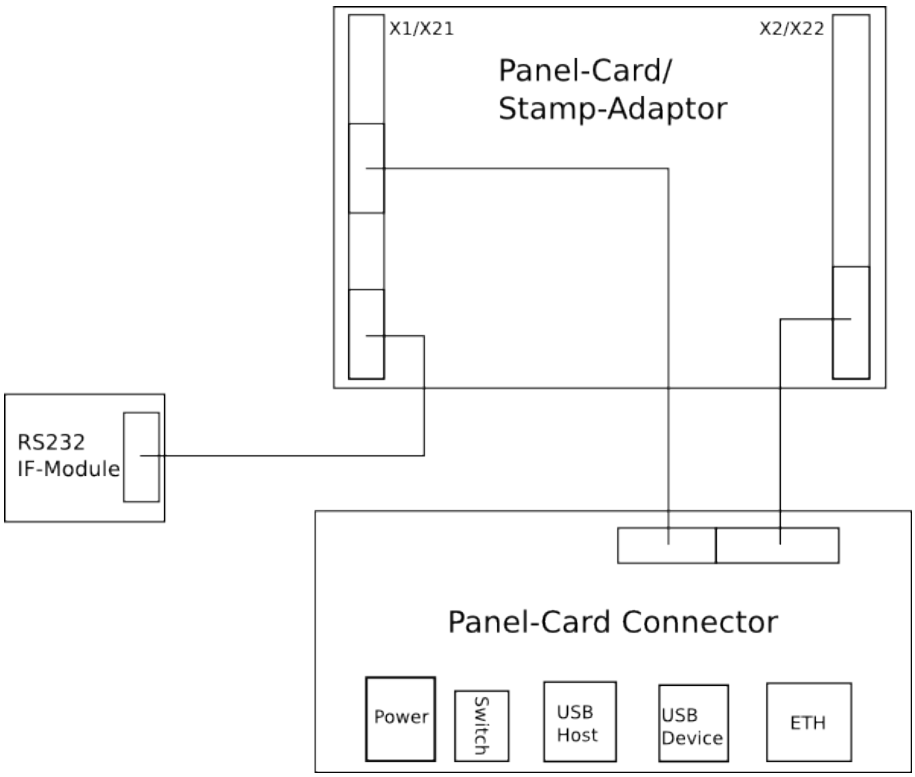

Figure 1.1. Panel-Card Connector setup

1.2. Power Supply

From an unregulated input voltage between 8 and 35V two voltages are produced:

- 3.3V for the CPU module
- 5V for USB

1.3. Connectors

The following connectors are part of the Panel-Card Connector

- Two 40-pin header connectors (0.1 inch pitch)
- Ethernet 10/100 MBit
- USB Host (dual)
- USB Device
- RS232 for use with an RS232 IF-Module
- DC connector for power supply

1.4. Dimensions

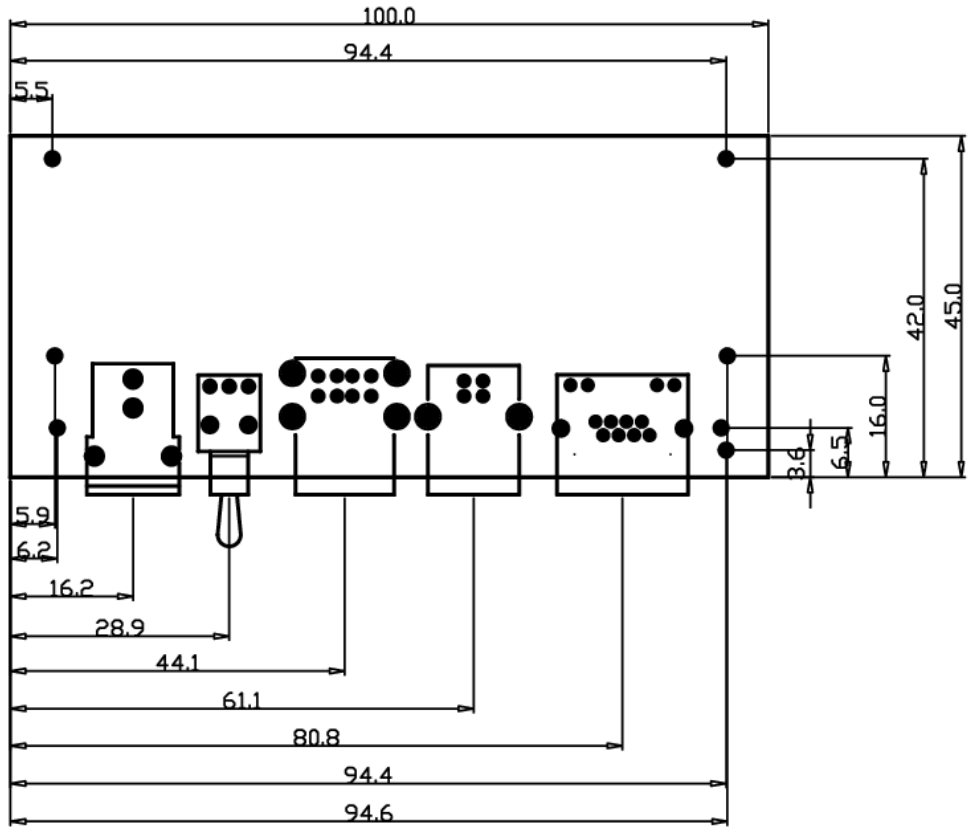

Figure 1.2. Panel-Card Connector Dimensions

1.5. Schematics

The following circuit diagram is intended for reference only and does not dispense the user from checking and applying the appropriate standards. No warranty can be granted if parts of the circuit are used in customer applications.

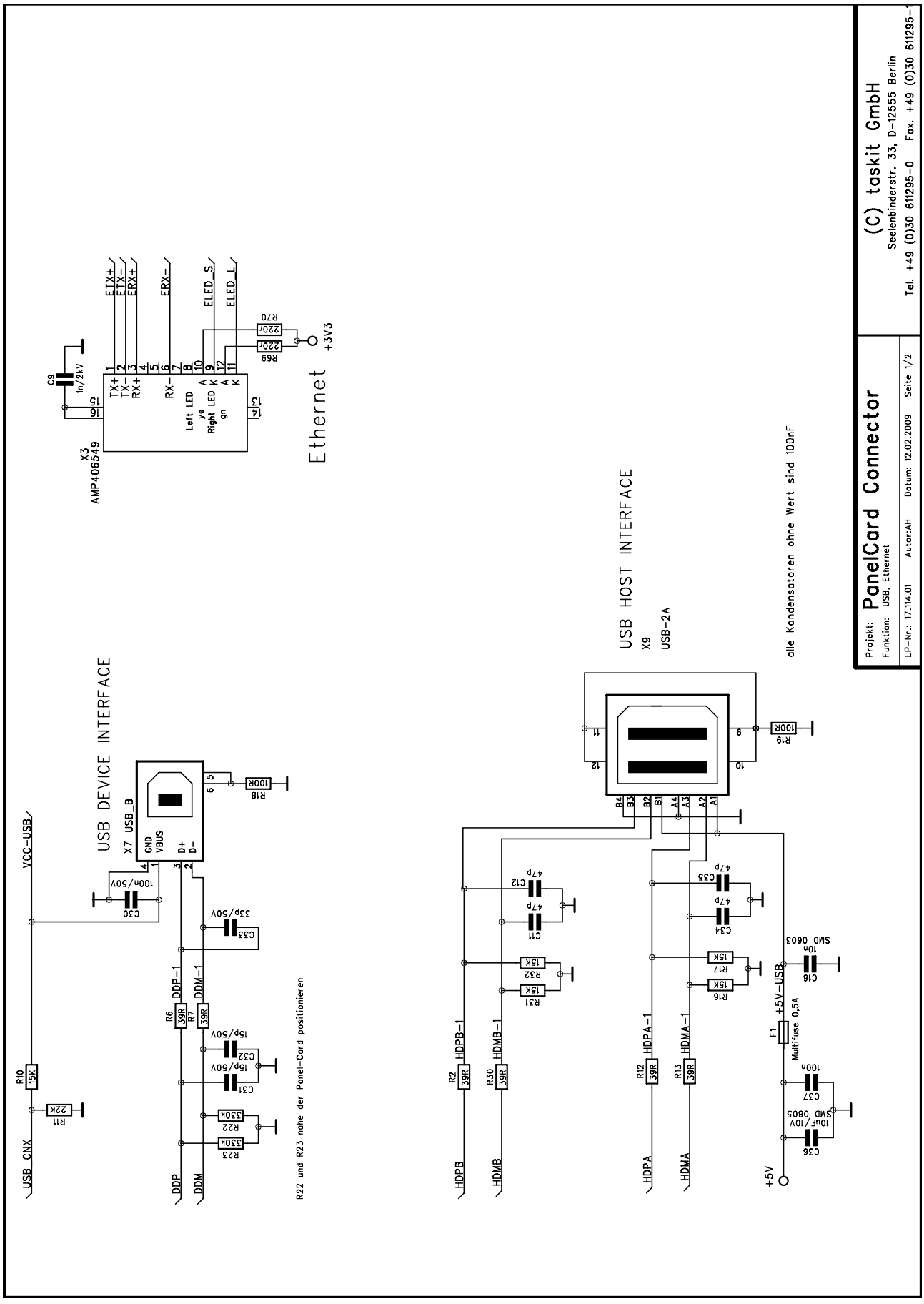

Figure 1.3. Panel-Card Connector Schematics USB/Ethernet

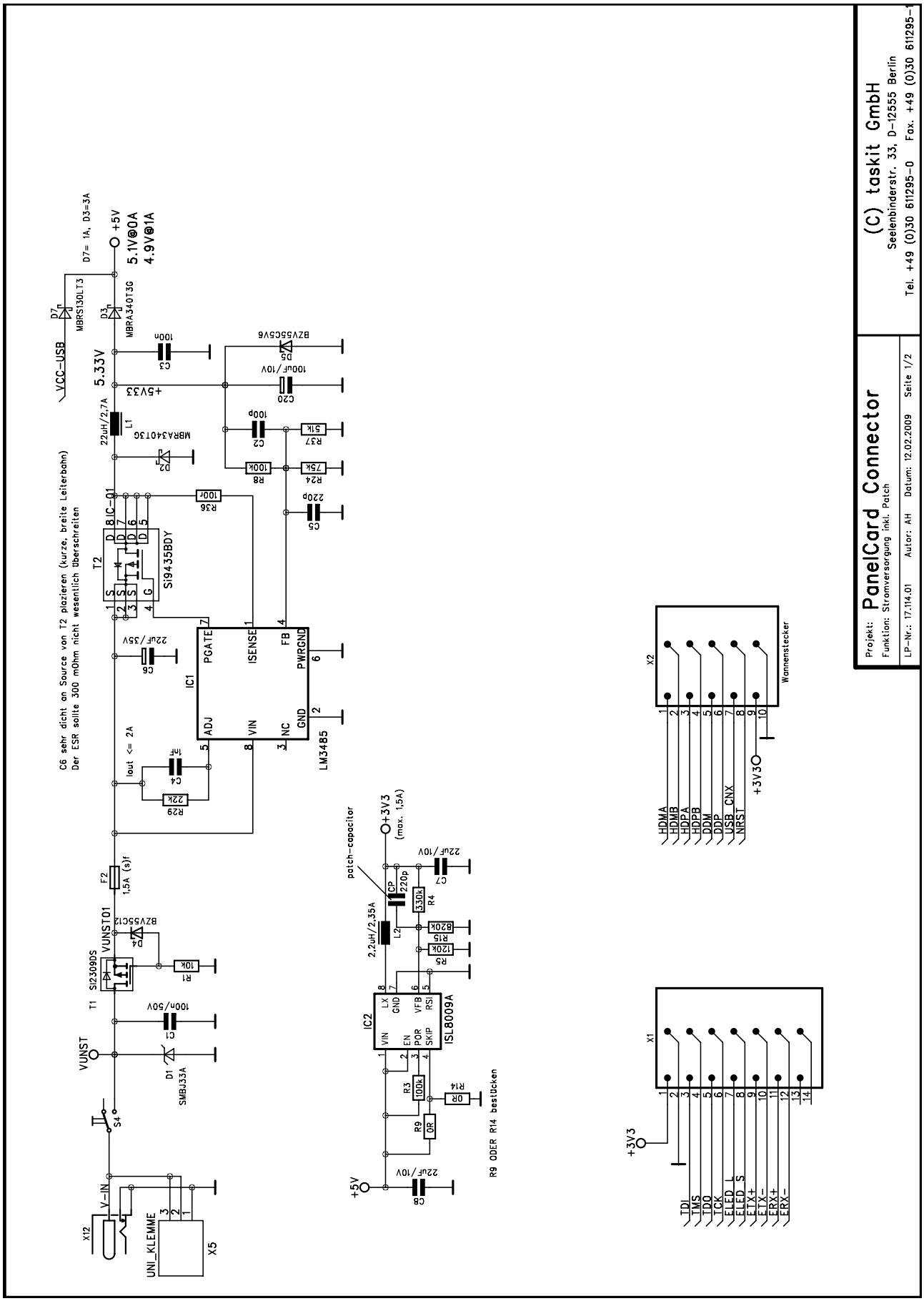

Figure 1.4. Panel-Card Connector Schematics Power Regulation/Connectors