



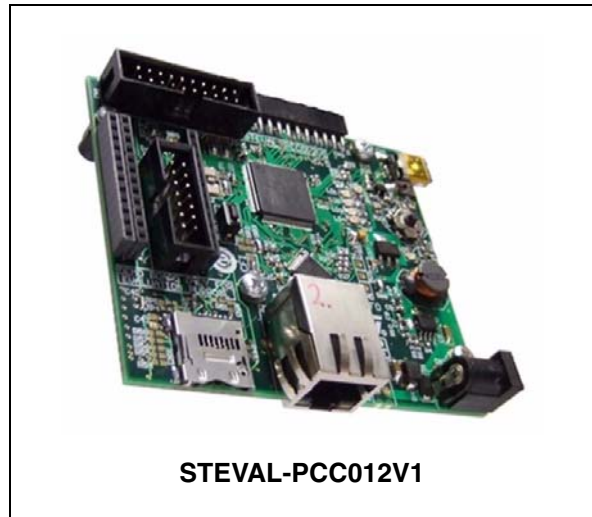
STEVAL-PCC012V1

Connectivity gateway demonstration board based on the STM32F107

Data brief

Features

- Offers Ethernet, USB OTG and general-purpose extension connector
- Two positions for optional Wi-Fi modules
- A microSD™ card socket
- Digital/analog extension connectors compatible with STEVAL-MKI0xxV1 MEMS extension boards and STEVAL-CCA021V1 audio extension board
- Compatible with ST7590 “PRIME” board – narrow-band OFDM
- JTAG interface for microcontroller firmware change/update
- DC-DC power supply using the L7986A
- Stand-alone demonstration firmware, on-board LEDs and joystick
- RoHS compliant



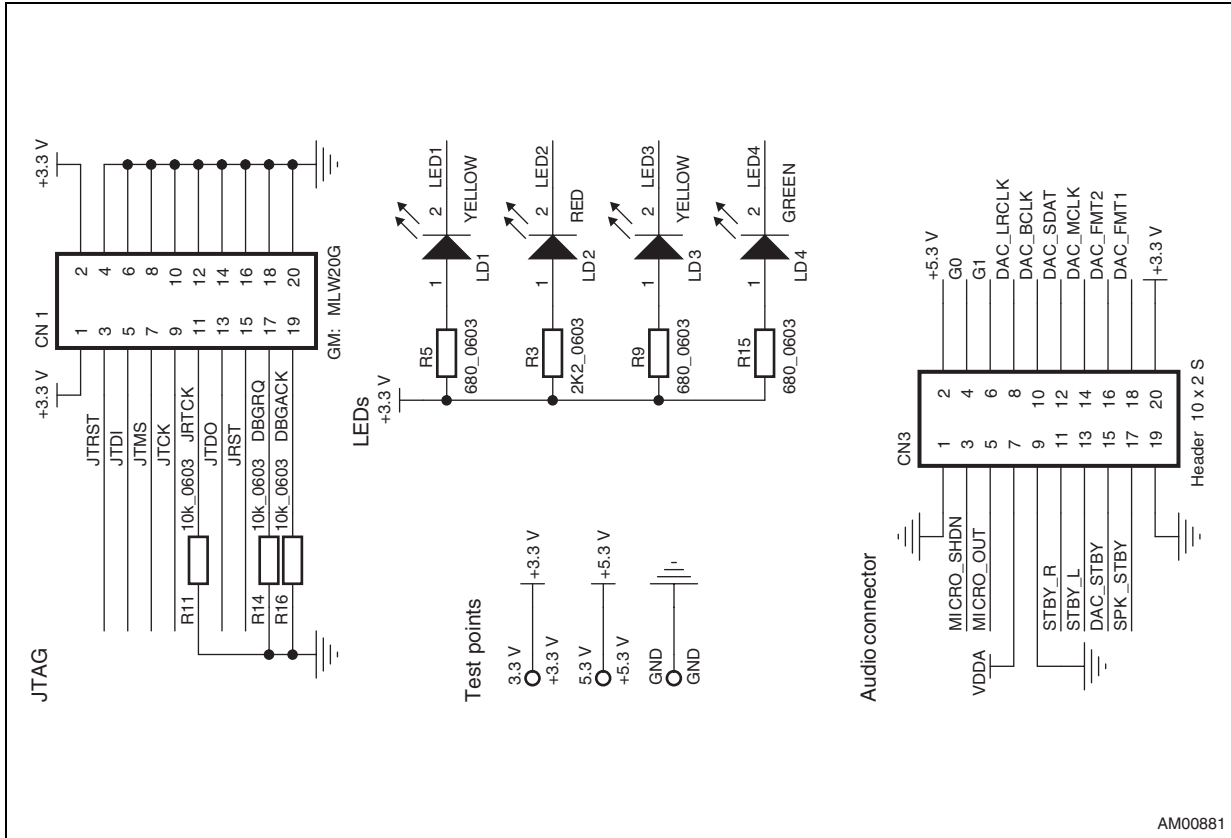
Description

The STEVAL-PCC012V1 demonstration board is equipped with an Ethernet interface, four digital/analog extension connectors (I²C, SPI, etc.), footprint positions for two different Wi-Fi modules, an OFDM PRIME power line networking extension connector and a microSD card socket with SPI interface. It also features a 5-way joystick, four general-purpose LEDs and two LEDs dedicated to the user interface.

The demonstration board also includes digital/analog input/output connectors with pinouts compatible with other demonstration boards from STMicroelectronics.

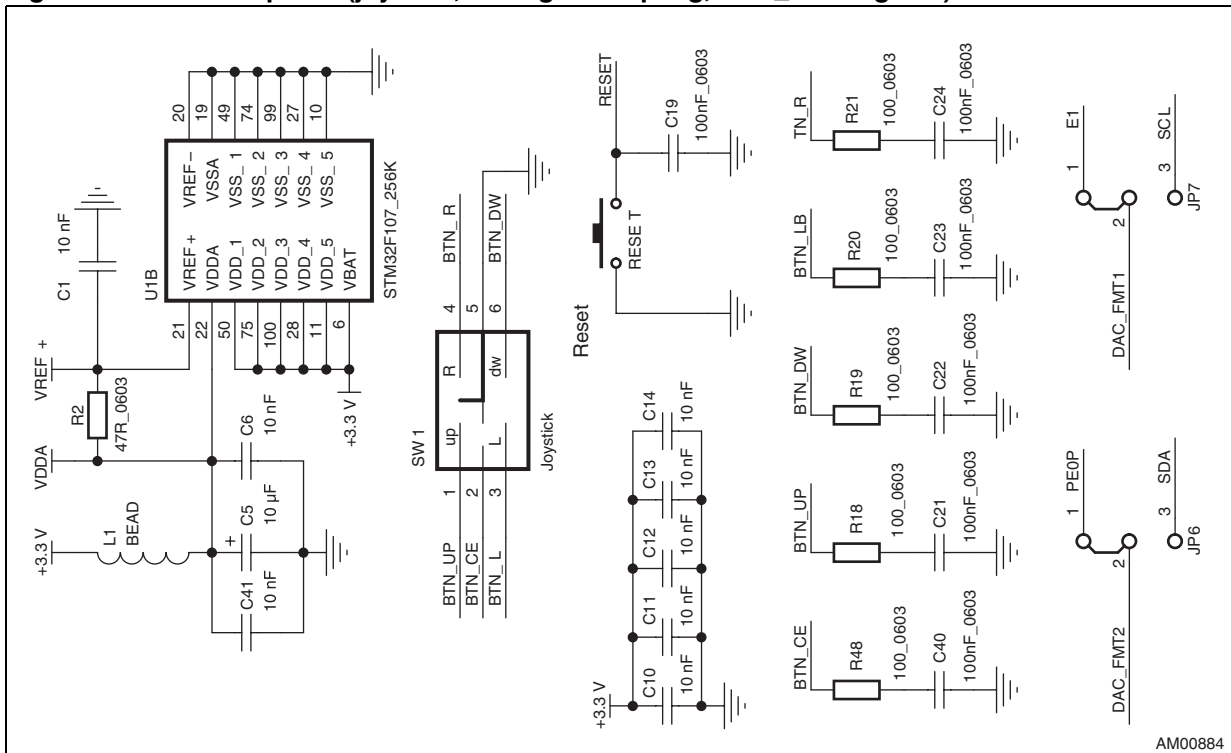
The STEVAL-PCC012V1 can be supplied from a standard DC power supply (7 - 35 VDC), or directly using a 24 VDC industrial mains supply.

Figure 3. STM32 - part 2 (JTAG, LEDs, audio extension connector)



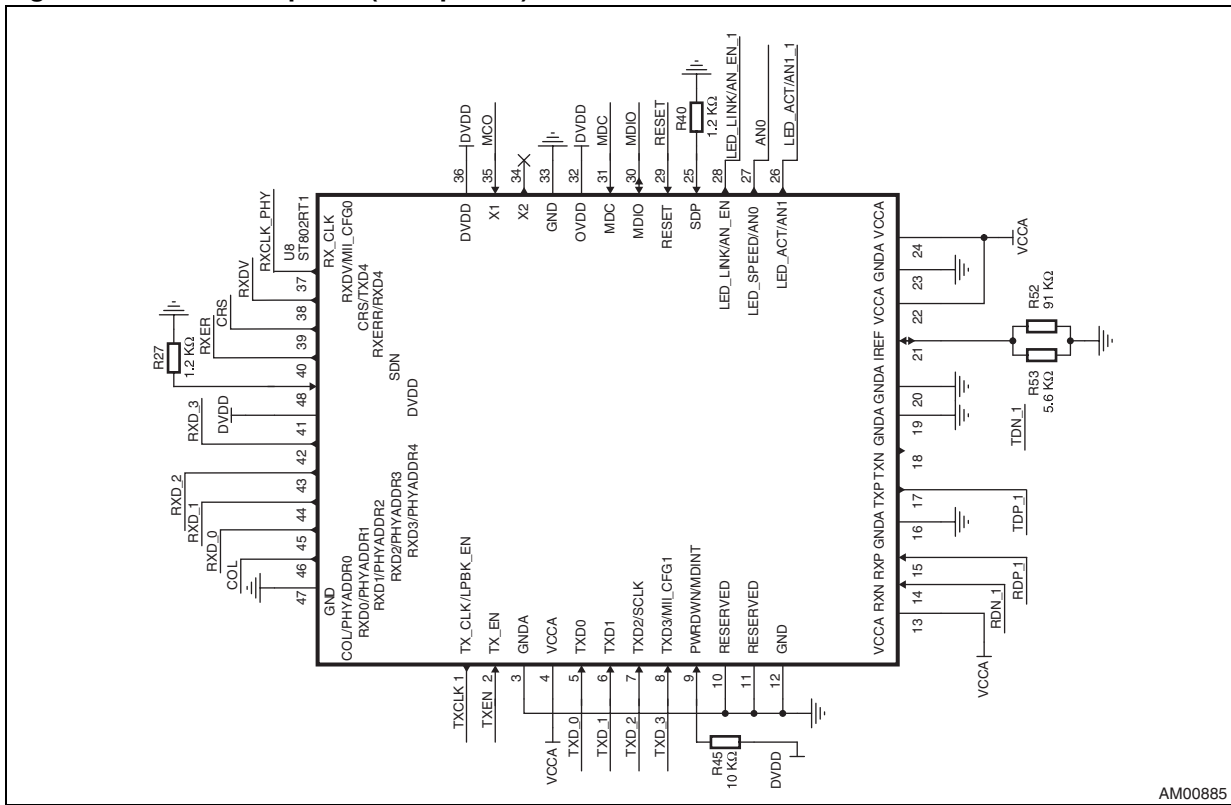
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Figure 4. STM32 - part 3 (joystick, analog decoupling, DAC_FMT signals)



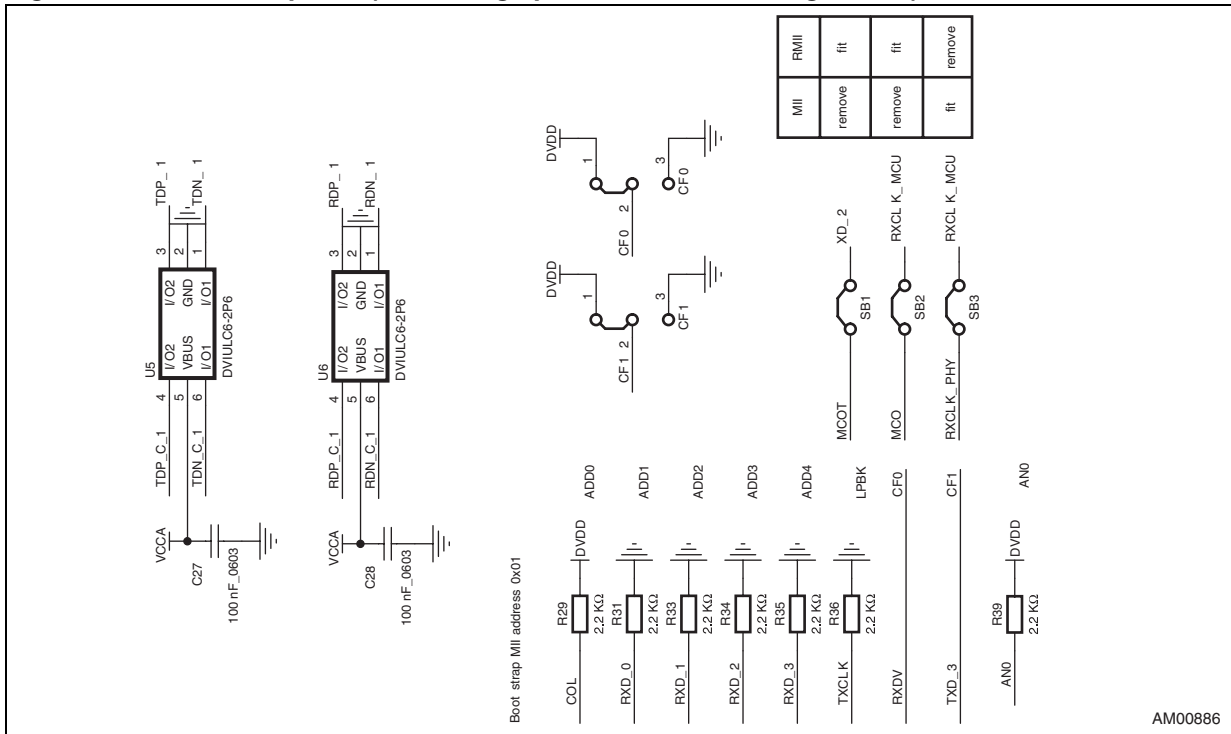
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Figure 5. Ethernet - part 1 (PHY pinout)



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Figure 6. Ethernet - part 2 (overvoltage protection, PHY configuration)



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Figure 11. MicroSD card

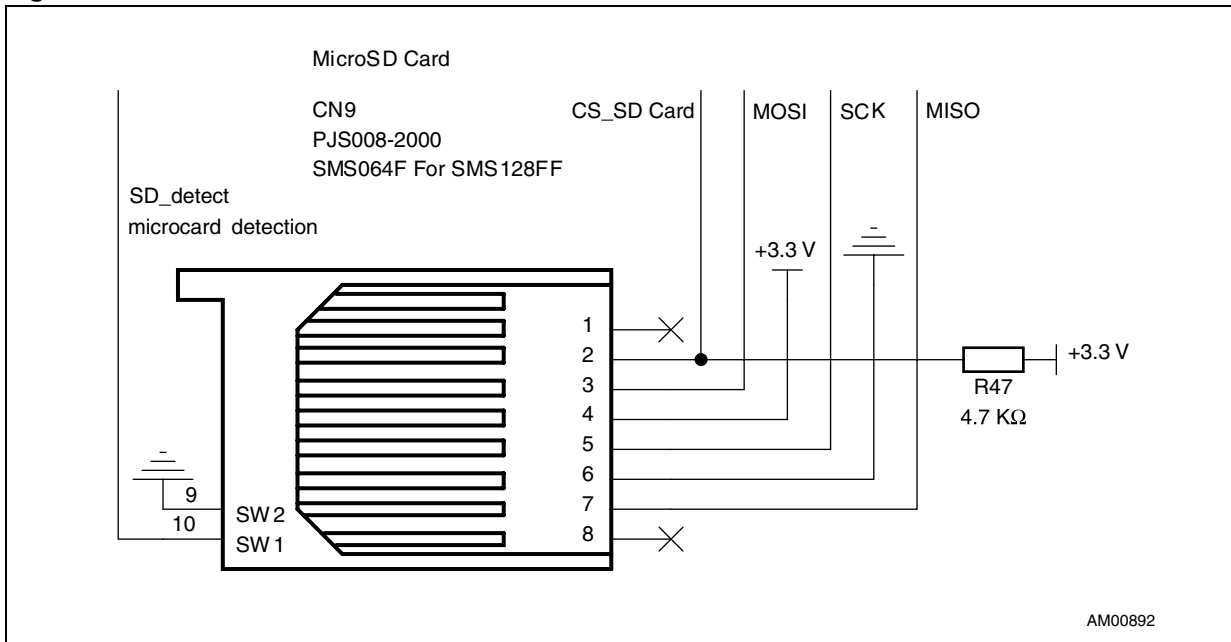
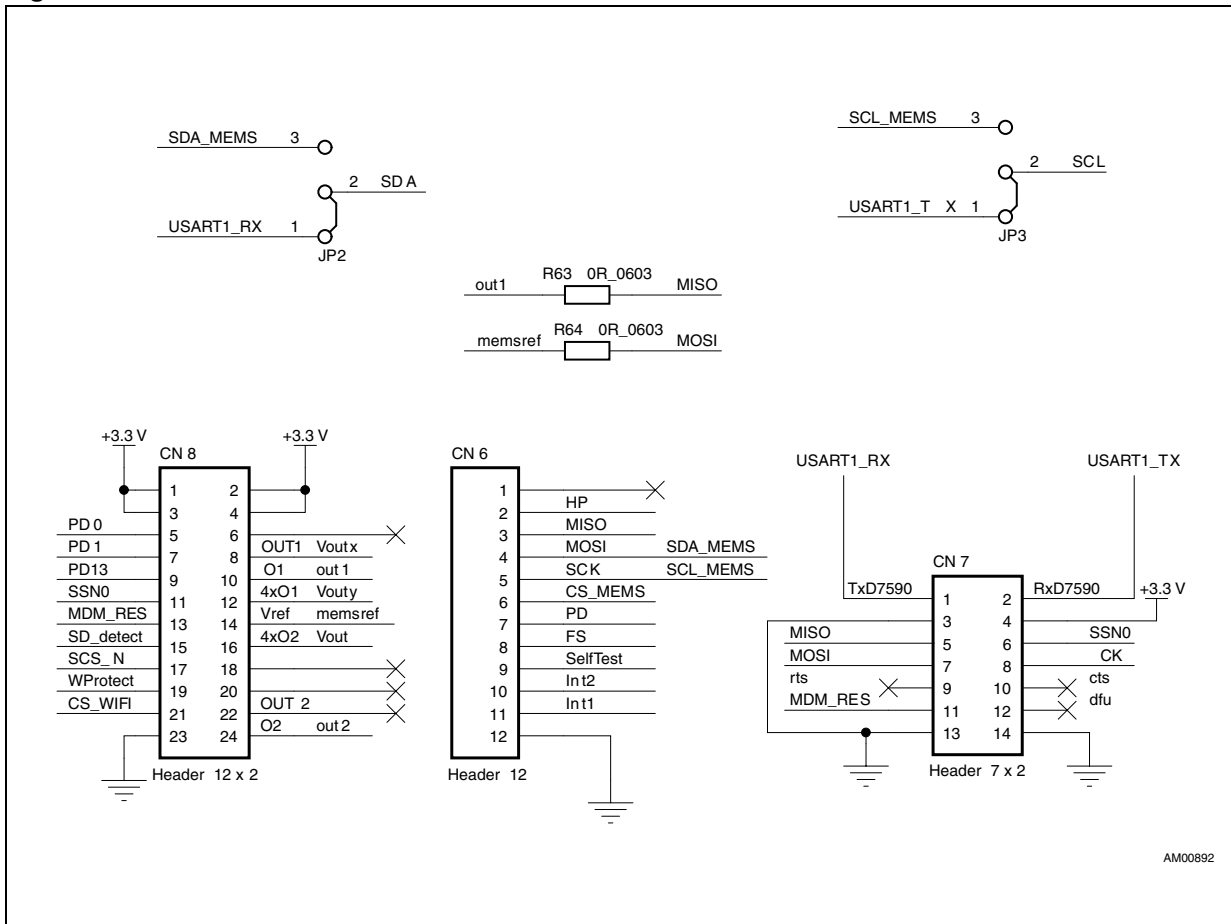


Figure 12. MEMS extension connectors



2 Power supply connectors CN2, P2

Figure 13. Power supply connector CN2

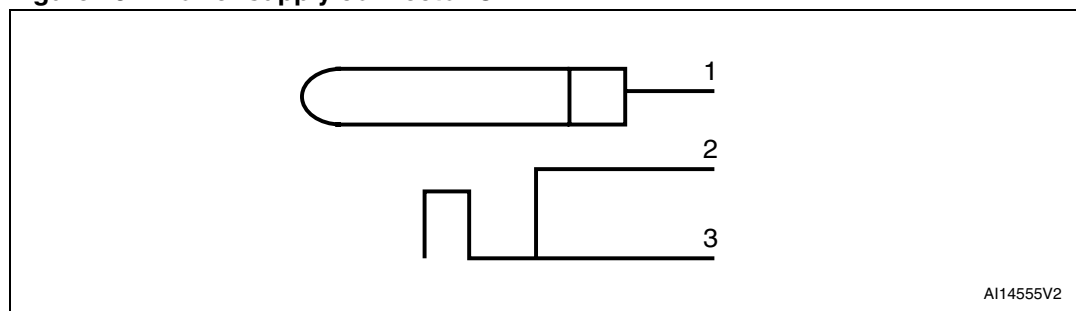


Table 1. Power supply connector CN2

Pin	Signal	Pin	Signal
1	24 VDC	3	GND
2	GND		

Figure 14. Power supply connector P2

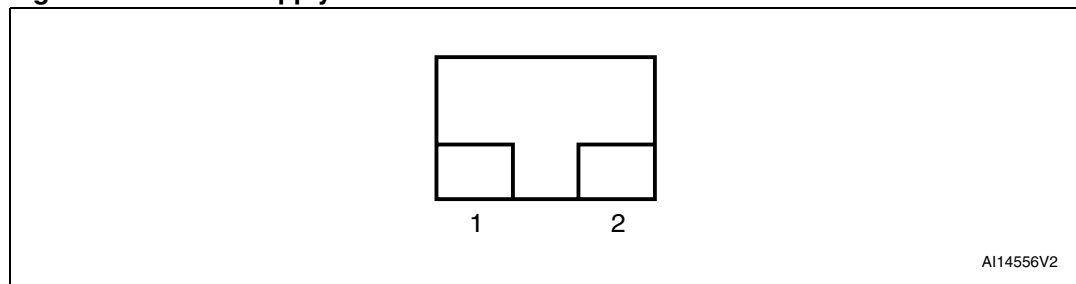


Table 2. Power supply connector P2

Pin	Signal
1	24 VDC
2	GND

3 Revision history

Table 3. Document revision history

Date	Revision	Changes
15-Jun-2010	1	Initial release.

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