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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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XM1283 – 433 / 868 / 915 MHz

Transceiver board with low power 8-bit microcontroller

GENERAL DESCRIPTION

The XM1283 is a radio module based on the highly integrated XE1283 combining an ISM-band radio transceiver and a low power microcontroller on one chip. The XM1283 consists of a DP1283 Drop –In Module soldered onto a DP to XM adapter.

The XM1283 transceiver module enables high data rate communication up to 152.3 kbit/s. The module is optimized for low power consumption. In transmit mode maximum output power is +15 dBm without any external power amplifier. Three frequency ranges are available to satisfy either the European (ETSI-300 220-1) or the North American (FCC part 15.231) standards.

XM modules may also be ordered as part of a Starter Kit, which includes a microcontroller interface and a PC-based graphical user interface to enable range testing and more detailed product evaluation.

ORDERING INFORMATION

Part	Version	Pin-package
XM1283-C433XEM-1	TrueRF™	Board with Antenna
XM1283-C868XEM-1	TrueRF™	Board with Antenna
XM1283-C915XEM-1	TrueRF™	Board with Antenna

KEY PRODUCT FEATURES

- Direct digital interface
- Supply voltage down to 2.4V
- Minimum external component count
- Frequency synthesizer step: 500 Hz
- Output power programmable: up to 15 dBm
- High reception sensitivity: down to -113 dBm
- Data rate from 1.2 kbit/s to 153.2 kbit/s
- Low Power consumption
- 8-bits microcontroller, RISC core
- Up to 6 MIPS, 300 uA at 1 MIPS operation
- Up to 22 kByte (8kW) MTP, 512 Byte RAM

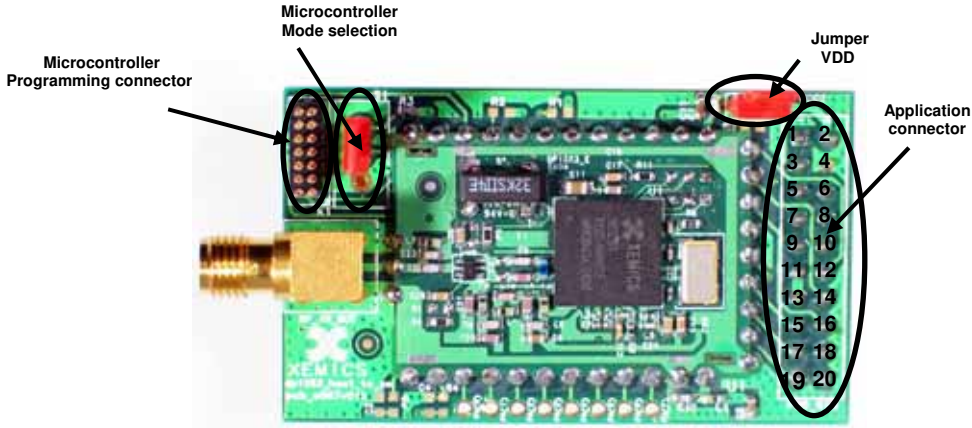
APPLICATION CONNECTOR

The XM1283 TrueRF™ can be connected to test equipment or XEMICS' development tools via a 20 pins connector.

- Pin #1**
"SCK": (Output), Clock of the 3-wire interface
- Pin #2**
"VDD": Connect to a 3.3V power supply.
- Pin #3**
"SI": (Output), Data of the 3-wire interface
- Pin #4**
"GND": Connect to Ground
- Pin #5**
"SO": (Input), Data of the 3-wire interface
- Pin #6**
"TX": (Input), Transmitter selection of the antenna switch; not connected by default
- Pin #7**
NC
- Pin #8**
"RX": (Input), Receiver selection of the antenna switch; not connected by default
- Pin #9**
"SWITCH": (Input / Output), RF mode selection / indication

- Pin #10**
"CLKOUT": (Output), Output clock at 9.75, 4.875, 2.4375 or 1.21875 MHz
- Pin #11**
NC, grounded
- Pin #12**
"PB(0)" (Input / Output) port B pin
- Pin #13**
NC, grounded
- Pin #14**
"PB(1)" (Input / Output) port B pin
- Pin #15**
"PB(5)" (Input / Output) port B pin
- Pin #16**
"PB(2)" (Input / Output) port B pin
- Pin #17**
"PB(6)" (Input / Output) port B pin
- Pin #18**
"PB(3)" (Input / Output) port B pin
- Pin #19**
"PB(7)" (Input / Output) port B pin
- Pin #20**
"PB(4)" (Input / Output) port B pin

The microcontroller can be programmed via the "programming connector" using a XE8000MP.



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