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8-bit AVR* Microcontroller with 32K Bytes In-System Programmable Flash

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Experiences for 16th birthdays. Explorer 16/32 development board datasheet

Title Download Link Document Id Favorites Explorer 16/32 Schematics Download fbde6c40-35d0-43cd-8dbd-daf822bb5c15 Explorer 16/32 Development Board Sell Sheet Download 11dc5f3d-53c3-4355-accd-6163606598a6 Explorer 16/32 Development Board Sell Sheet Download fbde6c40-35d0-43cd-8dbd-daf822bb5c15 Explorer 16/32 (TSB1G7000-E) Download ac0d948d-6326-423a-b96a-5f6030864ec5 Novatek's Single-Chip 16C X 2L Dot-Matrix LCD Controller / Driver (NT7603) Download cb874e33-ebeb-4f80-8857-938e8791158b 100-pin Plug-In Module (PIM) Dimensions Download 91678909-91ad-4116-b965-64e5339566ff Explorer 16/32 User Guide Link 00071bf0-55de-40d2-9f84-a685e14cc416 Title Download Date Link Explorer 16/32 Click Board Demo Code Download 29 Aug 2016 Explorer 16/32 Board Demo Code Download 06 Jul 2022 TMIK024 - ADC Click is an add-on board in the mikroBUS[™] form factor. It includes a 12-bit Analog-to-Digital Converter (ADC) MCP3204 device that features 50k samples/second, 4 input channels, and low-power consumption (500nA typical standby, 2µA max). In addition, this board uses the industry-standard SPI communication interface. It is small in size and features convenient screw terminals for easier connections. By default, the board is set to use 3.3V of power. However, to use it with 5V systems, just place the PWR SEL SMD jumper in the 5V position. Download ADC Click Board Demo Code TMIK025-DIGI POT Click by MikroElektronika DIGIPOT Click is an add-on board in the mikroBUS[™] form factor. It features a single-channel, digital potentiometer device (MCP4161) with 8-bit resolution (256 wiper steps) and the industrystandard SPI serial interface. The resistance value of the digital potentiometer goes up to 10 k Ω . This board features outstanding AC/DC characteristics and low-power consumption. It can be used in audio equipment, servo-motor control, battery charging and control, LCD contrast control, programmable filters, and more. Download DIGI POT Click Board Demo Code TMIK026 - DAC Click by MikroElektronika DAC Click is an add-on board in the mikroBUS[™] form factor. It includes a 12-bit, Digital-to-Analog Converter device (MCP4921) that features an optional 2x buffered output and SPI interface. calibration or compensation of signals such as temperature, pressure, and humidity are required. The board is set to use the 3.3V power supply by default. You may solder the PWR SEL SMD jumper to the 5V position for use with 5V systems. Download DAC Click Board Demo Code TMIK028 - GPS Click with Active GPS Antenna GPS Click is an add-on board in the mikroBUS[™] form factor. Its a compact solution for adding GPS functionality to your device. It features the LEA-6S, high-performance u-blox 6 positioning engine. The board can interface with a microcontroller via UART or I2C, or data can be acquired using the PC application via USB. The board features a connector that is compatible with active and passive antennas. It can operate on 3.3V of power only. Download GPS Click Board Demo Code TMIK029 - RELAY Click is an add-on board in the mikroBUS[™] form factor. The board features two G6D1AASI-5DC power relay modules, screw terminals for connecting external loads up to 5A, 250V AC/30V DC, and on-board transistors to drive the relays. Download RELAY Click Board Demo Code TMIK036 - microSD Click is an add-on board in the mikroBUSTM form factor. The board features a slot for microSD Click is an add-on board transistors to drive the relays. simple communication at high data rates. Use it for reading or storing data like music, text files, videos and more. The board is designed to use 3.3V power supply only. Download microSD Click Board Demo Code The Explorer 16/32 Development, demonstration, and testing platform for many families of Microchip 16-bit and 32-bit microcontroller devices. The board features all the necessary hardware (such as power supply, user interface, communications, and I/O connectivity) to begin developing and debugging a complete embedded application. The Explorer 16/32 board accepts 100-pin microcontroller "Plug-In Module" (PIM) daughter boards designed for the Explorer 16/32 Development Board (PIMS). In addition to the hardware features provided by the Explorer 16/32, hardware expansion is possible through the use of mikroBUS[™] and PICtail[™] Plus accessory boards. Board Schematics and Bill of Materials Full schematics and related information for the Explorer 16/32 Development Board can be downloaded below: Files Explorer 16/32 Development Board Features of the Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board re highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted and summarized below: Files Explorer 16/32 Development Board are highlighted are highlight (U14) in the center of the PIM area is part of the PICkit[™] On Board circuit (#7 below) and is not intended for running application code. In order to develop application code for the Explorer 16/32 Development Board, a PIM must always be installed on U1A. DC power supply input jack (J12, center pin positive), accepting 8-15 V DC, for powering the Explorer 16/32 board and any mikroBUS or PICtail Plus accessory boards. The board may also be power supply rails. Power supply rails. Power supply conversion circuitry - provides 5 V / 3.3 V power supply nets, with short circuit and USB overcurrent limiting features. Green power status LED (D1) - indicates when 5 V and 3.3 V rails are switched on MCLR reset button (S1) for manually resetting the PIM microcontroller. PICkit On Board (PKOB) programmer/debugger and micro-B USB connector - useful for basic programming/debug interface - compatible with MPLAB® ICD/REAL ICETM, and other RJ11 based Microchip programming/debug tools. 6-pin interface for the PICkit programmer (when used in conjunction with a 6-pin 100 mil male-male header). 8x general purpose green indicator LEDs (D3-D10) - controllable by the PIM microcontroller firmware. 4x general purpose green indicator LEDs (D3-D10) - controllable by the PIM microcontroller firmware. transferring data to/from the PIM microcontroller or attached accessory boards and a USB host. USB Type-C[™] connector - useful for the development of both embedded host and device based Low/Full/High-Speed USB signals with the Type-C connector and is useful for the development of dedicated USB embedded host applications, when used in conjunction with a USB capable microcontroller/PIM. 2x mikroBUS interfaces - useful for attaching a wide array of hardware expansion boards, for extending the functionality of the platform. PICtail Plus interface - useful for attaching a wide array of hardware expansion boards, for extending the functionality of the platform. a wide array of existing PICtail Plus based expansion boards, extending the hardware functionality of the platform. 100 mil pitch I/O pin access headers - useful for accessing nearly all PIM microcontroller nets for debugging, oscilloscope monitoring, or for making additional connections between nets and/or to external hardware. The female headers can accommodate standard 100 mil male headers or 22 AWG solid wires. Independent crystals for precision microcontroller clocking (8 MHz) and timekeeping operation (32.768 kHz). Also implements provisions for canned oscillators (see the "Oscillators Options" section). 10 kΩ Potentiometer - useful as an analog signal source for ADC demonstration or user interface purposes. TC1047A analog output temperature sensor - useful for monitoring the ambient temperature and/or demonstrating ADC operation. Serial SPI EEPROM (25LC256). 2-Line by 16-Character LCD Module - Truly TSB1G7000-E 4/8-bit parallel interface LCD module, useful for displaying user application strings/text. Getting Started Before using the Explorer 16/32 Development Board, it is first necessary to have a 100-pin processor Plug-In Module (PIM) installed on the male headers U1A. A PIM is always required, as the microcontroller U14 (located in the center of the PIM area) is part of the PICkit On Board programmer/debugger circuit, and is therefore not intended for running application related code. A list of available 100-pin PIMs which are compatible with the Explorer 16/32 (and Explorer 16/32 (and Explorer 16/32 are compatible with the Explorer 1 obtain the MPLAB Integrated Development Environment (IDE) and a suitable C compiler supporting your desired target PIM microcontroller. MPLAB X IDE and MPLAB C compilers can be found at: Microchip provides a wide variety of free example firmware projects and libraries, which are compatible with the Explorer 16/32 Development Board. Some initial "out of box" demo projects are available from: These demos exercise and demonstrate the basic functionality of the Explorer 16/32 Development Board and the microcontroller (e.g., by using pushbutton(s) and displaying ADC data to the LCD module). Details on the usage of the example projects can be found in the documentation accompanying the projects. Application and microcontroller peripheral interface code can be generated using the MPLAB Code Configurator (MCC): Additional reference projects/libraries for Applications (MLA) and Harmony packages: Tips for Reading the Schematics The net names of signals connecting to the PIM microcontroller headers (U1A) follow a naming convention where each net (except power and ground) is prefixed with the u1A male PIM header pin number associated with the net. Nets that are also connected to one or more dedicated hardware features on the Explorer 16/32 Development Board have net names with underscores and suffixes denoting their associated feature(s). For example, the net "P21_TEMP" is the electrical signal attached to the U1A male PIM header pin 21, and it is also connected to the analog output pin of the TC1047A temperature sensor (U4) on the Explorer 16/32 Development Board. Similarly, the net "P92_S5_LED10" represents the signal attached to U1A male PIM header pin 92, which also connects to pushbutton S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to note that the U1A male PIM header pin 92, which also connects to pushbutton S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to note that the U1A male PIM header pin 92, which also connects to pushbutton S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to note that the U1A male PIM header pin 92, which also connects to pushbutton S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to note that the U1A male PIM header pin 92, which also connects to pushbutton S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to note that the U1A male PIM header pin 92, which also connects to pushbutton S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to note that the U1A male PIM header pin 92, which also connects to pushbutton S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to note that the U1A male PIM header pin 92, which also connects to pushbutton S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to note that the U1A male PIM header pin 92, which also connects to pushbutton S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to note that the U1A male PIM header pin 92, which also connects to pushbutton S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to push button S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to push button S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to push button S5, as well as LED D10, on the Explorer 16/32 Development Board. It is important to push button S5, as well as LED D10, on the Explorer 16/32 with the pin numbers of the microcontroller mounted on the PIM PCB. For example, the PIC24FJ256GA705 PIM (MA240039) is based on a TQFP-48 microcontroller, which does not have enough total I/O pins to connect to and control all 100 PIM pins independently (especially in a 1:1 fashion). Therefore, the PIM PCB maps microcontroller pins to PIM header pins on a functional basis (ex: PIM pin 21, named "P21 TEMP" is connected to an A/D input channel pin RA1/AN1 on the microcontroller, which is TQFP-48 pin 22). We recommend you refer to both the PIM schematics as well as the Explorer 16/32 Development Board schematics the connected hardware. In addition to the above conventions, the signal names for dedicated signals connecting to the mikroBUS interfaces end in "A" or "B". For example, the net "P10 SCKA" connects to U1A male PIM header pin 10, as well as to the SPI interfaces end in "A" or "B". the U1A PIM header pin 55, and to the SPI interface SCK pin on the mikroBUS interface B. The "P57 SCL" and "P56 SDA" nets are, however, associated with a shared I2C bus that is connected to both mikroBUS signals. Older schematics for PIM PCBs and PICtail Plus daughter boards that were originally designed for the "classic" Explorer 16 Development Board do not follow the above net naming conventions. These schematics typically use microcontroller pin/function names as net names (ex: "RE5/PMD5", instead of "P3_LCDD5"), as they were originally based on the PIC24FJ128GA010 PIM (MA240011), which was the first PIM created for the classic Explorer 16/32 board can be powered from any one or more of four different connectors: USB micro-B for PKOB (J18), USB Type-C (J24), USB micro-B for USB-Serial converter (J40), or the DC barrel jack (J12). The three USB power sources are effectively (Schottky) diode OR-ed together, and sent through a current limiting/short circuit, before feeding the 5 V rail on the board. A summary of the typical output voltage and current capability of each power supply rail based on the type of power source provided is as follows: Power Source 3.3 V / Vdd Rail "5 V" Rail USB only 3.3 V up to 400 mA ~4.5 V up to 400 mA ~4.2 V up to 400 mA ~4.2 V up to 1.3 A 5.0 V up to 1.3 A For applications requiring a true 9 V rail, 3.3 V / Vdd Rail "5 V" Rail USB only 3.3 V up to 400 mA ~4.2 V up to 1.3 A 5.0 V up to 1.3 A For applications requiring a true 9 V rail, 3.3 V / Vdd Rail "5 V" Rail USB only 3.3 V up to 400 mA ~4.2 V up to 1.3 A 5.0 V 5 V rail currents exceeding 400 mA, or applications requiring a well regulated 5 V rail (ex: USB host applications), it is recommended to power the Explorer 16/32 board through the dedicated DC barrel jack J12. The board accepts center pin positive 8 V - 15 V DC power supplies (such as microchipDIRECT AC002014). When powered with an external wall cube, 5 V or 3.3 V rail currents up to ~1.3 A are supported. However, when continuously operating at this current level, be careful, as components u6, D20, U9, and other surrounding areas will become quite hot (>100° Celsius possible). Some of the components u6, D20, U9, and other surrounding areas will become quite hot (>100° Celsius possible). immediately obvious at first glance. Some of the special components and details/intent of their implementation are described below. The Explorer 16/32 components Q5, C61, and R132 implement a soft start circuit when the board is powered through one of the USB connectors. During attachment of a USB device to a host (or hub), a USB device should attempt to limit the amount of (near) instantaneous in-rush current it consumes from the host/hub's +5V VBUS supply. If the device to implement some form of soft start/inrush limiting circuit. When the device's capacitance exceeds 10 µF, the USB specification expects the device to implement some form of soft start/inrush limiting circuit. across VBUS), with no in-rush limiting circuit a large transient will occur at the moment of device attachment. This in-rush transient can potentially cause a significant voltage droop within the local host/hub's power net, leading to malfunction in the host or hub, or in an adjacent USB device that may also be already attached and powered by that host/hub. This can potentially cause problems with enumeration or otherwise lead to a poor end-user experience. During a USB attachment event, the Explorer 16/32 Development Board MOSFET Q5 is driven in the linear region (due to the effect of C61 and R132), allowing for slower output voltage rising waveform (and correspondingly reduced inrush current profile). The components O5, R99, and O4 are used to implement a USB current limiting and short circuit protection feature. This will begin to activate when the total load on the 5 V and 3.3 V Explorer 16/32 supply rails exceeds approximately 400 mA (when powered only by USB, without additional power from the DC barrel jack). Under hard short circuit conditions, resistors R131 and R134 implement a current foldback scheme. This dynamically reduces the current limit to ~260 mA, thereby reducing thermal power dissipation in Q5, allowing for a continuous short circuit to be sustained when the ambient conditions are near 25° Celsius. On-Off toggle power switching of the current limit to ~260 mA, thereby reducing thermal power dissipation in Q5, allowing for a continuous short circuit to be sustained when the ambient conditions are near 25° Celsius. 5 V and 3.3 V rails on the Explorer 16/32 board is implemented with U3 + S7 + the surrounding resistor/capacitor components. The dual inverter U3 is connected in a circular chain, providing positive feedback and an effective 1-bit latching memory cell. Pushbutton S7, C28, R130, and R135 implement a de-bounced means of toggling the state of the 1-bit memory cell. Components R129, R136, and C62 help establish an initial "default to on" state during the initial power-up ramp of U3. Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized as follows: Jumper Options The Explorer 16/32 Development Board has several jumpers, summarized Host VBUS enable control signal J23 Potentiometer (POT) R6 disconnect J25 USB Signal Quality/P90 USBDP to PICtail+ access connection J27 EEPROM U4 Chip Select disconnect J28 USB Type-C host/device Configuration Channel 2 select (CC2) J33 USB Host VBUS Over Current detect signal J37 Universal Asynchronous Receiver Transmitter (UART) RX to MCP2221A connect J41 MCP2221A i²C SDA signal disconnect J42 MCP2221A i²C SDA signal disconnect J43 9 V rail current measurement test point J45 5 V rail current measurement test point J45 3.3 V rail current measurement Explorer 16/32 board, so as to minimize loading of the I/O pins connected to the LEDs. In order to use any of the LEDs D3-D10 as indicators, JP2 must be capped. J19: Connects to the Plug-In Module (PIM) pin P82 and the LCD R/W pin. When the jumper is capped, this allows the PIM microcontroller firmware to read from the LCD module. When the jumper is left open, the LCD R/W pin is pulled low by R116, putting the LCD in Write Only mode. In general, it is usually not necessary to read from the LCD module is in Write Only mode, the module I/O pins will be tri-stated (albeit with weak internal pull ups in the module), which prevents I/O contention with the microcontroller firmware to turn on/off the USB Type-C^{IM} connector +5 V VBUS power supply (output to an attached USB device). The USB Type-C specifications indicate that hosts should first detect the presence of an attached USB device, prior to enabling the +5 V VBUS output to the USB connector (so as to avoid potentially harmful current flows if two hosts or power sourcing devices are connected together). For engineering development/testing convenience, jumper position 1-2 continuously enables the +5 V VBUS output onto the USB Type-C connector, but this jumper position is generally not recommended for normal use, as it will not be USB compliant. This jumper position is generally not recommended for normal use, as it will not be USB to disable VBUS output sourcing in these types of applications. J23: This can be used to disconnect the POT R6 output from the PIM microcontroller. By default, a trace (on the bottom of the Printed Circuit Board (PCB)) shorts the two pins of J23, and the POT will always be connected to the microcontroller. If desired, the trace can be cut to disconnect the POT, and a 2-pin jumper may optionally be installed to allow user re-connection/disconnection of the POT. J25 and J26: These jumpers are present for USB signal quality. In non-USB applications, both jumpers should generally be capped. In USB high-speed applications, the P89 USBDN and P90 USBDP nets are implemented as a dedicated transmission line (~90 Ω differential and ~30 Ω Common mode impedance), between the PIM pins 89/90 and the USB connector. Capping J25 and J26 has the effect of shorting the P89_USBDN/P90_USBDP nets to the P89_USBDN E/P90_USBDP is a general-purpose I/O pins. However, capping J25 and J26 creates T junctions in the signal traces (trace splitting), which will disrupt the transmission line characteristics, required for reliable USB high-speed communication. At USB Low (1.5 Mbps) and Full (12 Mbps) speeds, the relatively slow signaling rates (and edge slew rates of the signals) are much more forgiving of non-ideal trace layout and short (< 19 cm) T junctions/signal branches. Therefore, in Low and Full speed USB applications, J25 and J26 may be left either capped, although, for the best signal quality it is still preferable, but not strictly required, to keep both jumpers open. J27: Connects the 25LC256 EEPROM (U5) chip select to the PIM P79 EECS net, when capped. When left open, the resistor R2 de-selects the EEPROM, ensuring that no I/O contention will occur on the P11 MISOA net, even if the PIM microcontroller firmware uses this net as a digital output. J28 and J29: These 3-pin jumpers should be capped in the 1-2 position, so that the CC1/CC2 pins of the USB connector are pulled high by R105 and R106. When pulled high, this advertises to the other USB product at the other uSB product at the other USB product at the other uSB rype-C Device mode application, the J28, and J29 jumpers should instead by capped in the 2-3 position, pulling CC1/CC2 low (via R107 and R10). This signals to the host (or hub) at the other end of the USB cable that a device has been attached (as opposed to another host). In non-USB applications, the jumper caps may be removed altogether, so as to minimize interference on the P33 CC1 and P32_CC2 nets. However, if the application wishes to obtain USB bus power from the USB Type-C connector, the jumpers should still be left capped in the Device mode positions (ex: cap pins 2-3), as USB Type-C hosts will not necessarily enable the 5 V VBUS power supply to the USB port until it first confirms the presence of an attached device. J33: When capped, this jumper allows the PIM microcontroller to measure/detect USB embedded host over current or short circuit conditions, the jumper should be capped and the P25 ANA USBOC net s only, or USB embedded host - not requiring VBUS over current detection), the jumper may be left open to allow the PIM pin 25 to be used for other purposes. J37: This jumper can be used to connect the MCP2221A TX signal from the P49 RXB net, which normally goes to the PIM microcontroller's RX pin, as well as the mikroBUS B and PICtail Plus interfaces. This jumper should be capped, whenever the MCP2221A will be used to interface with the PIM microcontroller UART (or to a UART based peripheral attached via mikroBUS interface). J38: This jumper can be used to connect the MCP2221A RX signal from the P50 TXB net, which normally goes to the PIM microcontroller's TX pin, as well as the mikroBUS B and PICtail Plus interfaces. This jumper should be capped, whenever the MCP2221A will be used to interface B or the PICtail Plus interface). J39: This is can be used to disconnect the temperature sensor (U4) output from the PIM microcontroller. If desired, the trace can be cut (see silk text on the bottom of PCB) to disconnect the POT, and a 2-pin jumper may optionally be installed to allow user re-connection/disconnection of the sensor. J41: When capped, this jumper connects the MCP2221A I²C Serial Data (SDA) pin to the P56_SDA net which goes to the PIM microcontroller, the mikroBUS A/B interfaces, and to the PICtail Plus interface. Opening this jumper disconnects the SDA pull up resistor and MCP2221A from the P56 SDA net. 142: When capped, this jumper connects the MCP2221A I²C Serial Clock (SCL) pin to the P57 SCL net which goes to the PIM microcontroller, the mikroBUS A/B interfaces, and to the P1C tail Plus interfaces. J43: When populated with a 2-pin jumper header, a trace on the bottom of the PCB can be cut to measure the +5 V rail current consumption of the board, by inserting an external current meter between the jumper J44 pins. J45: When populated with a 2-pin jumper header, a trace on the bottom of the board, by inserting an external current meter between the jumper J45 pins. J50: This jumper connects the VDD PIM net to the +3.3 V power supply on the Explorer 16/32 Development Board. When uncapped, a floating/non-earth ground-referenced current meter (ex: a typical battery-operated Digital Multi-Meter (DMM)) may be connected between the pins to measure the current consumed by the PIM, on the VDD PIM net. current measurements, the jumper should be maintained consistently capped, to ensure the PIM microcontroller gets power. Oscillator Options The Explorer 16/32 Development Board comes with two crystals, 8 MHz (Y2) for use with Plug-In Modules (PIM) microcontroller's primary and secondary oscillator circuits respectively. Although not populated by default, the board also has provisions for the installation of a canned oscillator or socket, allowing the PIM microcontroller to be operated in External Clock (EC) or External Clock Phase Locked Loop (ECPLL) modes, at a custom frequency. In order to use a canned oscillator, the unpopulated resistor pad R4 must first be populated with a 0 Ω jumper resistor (size 0603), which will have the effect of connecting the canned oscillator output to the P63 OSCI net, which feeds the PIM microcontroller. Once R4 is populated, a canned oscillator output to the P63 OSCI net, which feeds the PIM microcontroller. canned oscillators (with 3.3 V VDD and CMOS output capability) or sockets, while pad X4 is designed to be used with the Microchip DSC1001 (or other DSC1001) series oscillators, in the 2.5 mm x 2.0 mm package. If using a DIP-8 canned oscillator (or oscillator socket), the device should be installed in the bottom-most four pins of pad X2 (e.g., so that pin 1 of the DIP8 oscillator is the same pin 1, if a DIP14 oscillator were used instead). When using a canned oscillator it also recommended populating C9 with a ~5.1 kΩ pull-up resistor (if a DIP8/DIP14 canned oscillator with a standby/enable pin will be used). Using the MCP2221A USB-Serial Converter The MCP2221A provides USB to Universal Asynchronous Receiver Transmitter (UART) and USB to I²C serial adapter functionality, which can be used to interface the Plugin Modules (PIM) microcontroller and/or other hardware to a host (e.g., a PC serial terminal application). On the Explorer 16/32 Development Board, the MCP2221A is accessible through USB Micro-B connector J40. USB Driver Installation When using the MCP2221A on a Windows 8.1 USB host, the USB drivers for the MCP2221A can be manually downloaded and installed from the MCP2221A can through the Windows Update service, provided that the machine is connected to the internet at the time of the first attachment of the hardware, and the local policy settings enable automatic, without requiring any internet connection or manual installation procedures. Under Windows 10, it is neither necessary nor recommended to try to manually install any additional or different drivers. Under Mac OS X® 10.7 and later, and under most modern Linux® distributions, the device uses the operating system provided Human Interface Device (HID) and Communication Device Class - Abstract Control Model (CDC-ACM) drivers automatically, such that no manual driver installation procedures should be necessary. Identifying and Connecting to the MCP2221A USB-UART Adapter Function Windows Operating Systems Once the USB drivers are properly installed, a new serial port object should become available for application use. Under Windows, the serial port should become visible from the Windows Device Manager in the Ports (COM & LPT) category and should be assigned to the hardware will depend in part upon how many COMx based hardware devices have previously been connected to the machine, as each new hardware devices are not allowed to share the same COMx number). If a machine currently has more than one COMx based hardware device attached to the machine, multiple COMx entries (but different numbers, e.g., COM1 and COM2) may exist in the Windows Device Manager in the Ports (COM & LPT) category, and it may not be clear which COMx port number is specifically associated with the MCP2221A device. If this occurs, the COMx number can be manually identified by temporarily detaching the USB connection to the MCP2221A, while watching the Windows Device Manager, to identify which device entry disappears (and subsequently re-appears in the list, upon re-attaching the MCP2221A). Once the COMx port number assigned to the MCP2221A is known, any conventional serial port terminal program can be used to open/close/read/write to the COMx port. Upon opening the COMx port and writing characters to it, the MCP2221A will forward the characters originating from the Explorer 16/32 Development Board (or attached accessories) will be transmitted to the host terminal program, when J38 is capped. Full source code is provided with the application (which can automatically identify the COMx port number in software) when the USB Vendor ID (VID) and USB Product ID (PID) values are known for the USB to serial adapter device. Identifying the COMx number from the USB VID/PID is preferable for end consumers, as the USB VID/PID are normally static for a given application (e.g., set at design time), and would not normally change if the user moves the hardware from one USB port to a different port, on a given machine). The MCP2221A that comes on the Explorer 16/32 Development Board is pre-programmed with USB VID = 0x00DD, but these default values can be changed with the MCP2221A utilities. Mac OS X 10.7 or Later Operating Systems Under Mac OS X 10.7 or later, the MCP2221A should appear as a /dev/tty.usbmodemXXXX device, where "XXXX" is the number and text wildcards representing the hardware instance, similar to the COMx port number under Windows. The /dev/tty.usbmodemXXXX device can be opened similar to a regular Windows. The /dev/tty.usbmodemXXXX device, where "XXXX" is the number and text wildcards representing the hardware instance, similar to the COMx port number under Windows. The /dev/tty.usbmodemXXXX device can be opened similar to a regular Windows. The /dev/tty.usbmodemXXXX device can be opened similar to the COMx port, using a standard serial terminal program. Under Mac OS X 10.7 or later, the built-in "screen" terminal utility can be used as a serial terminal for accessing the device. To obtain the device name, open a terminal (click the spotlight and search for "terminal"), then enter: ls /dev/tty.*. When the MCP2221A USB device is attached and enumerated a "/dev/tty.usbmodemXXXX" device entry should be shown corresponding to the MCP2221A hardware. Once the specific name is known, it can be opened using: screen -U /dev/tty.usbmodemXXXX 115200. "XXXX" should be replaced with the specific name applicable to the instance, and "115200" is the baud rate to open the serial port at, which can optionally be changed to a different value within the MCP2221A's capability, ex:

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