

## **Quick Start**

Required equipment MAXREFDES150# Case (Pocket IO) with MAXREFDES150ATACH#

Two 40-pin cable assemblies

24V, 1A power supply USB cable Windows® PC with a USB Port Arduino IDE Software

## Procedure

Maxim Pocket IO Arduino Installation Instructions

- 1. Download and install the latest Arduino IDE.
- a. Go to https://www.arduino.cc/en/Main/Software.

b. Select the appropriate OS link (Windows, MAC®, Linux®). For this Quick Start we assume the OS is Windows PC.



c. Follow the prompts to download and save the file.

Opening arduino-1.6.11-windows.exe		×
You have chosen to open:		
📧 arduino-1.6.11-windows.exe		
which is: Binary File (8貨0 MB)		
from: https://downloads.arduino.cc		
Would you like to save this file?		
	Save File	Cancel

- 2. Install the latest Arduino IDE.
- a. Once the download has completed double click 'Arduino-x.x.xx-windows.exe.'
- b. Windows then prompts you to run this file, select 'Run.'
- c. The Arduino setup displays the license agreement, select 'I Agree.'

Arduino Setu	ip: License Agreement	-		×
	view the license agreement before I terms of the agreement, click I A		ino. If you	
GNU LESSER GEI	NERAL PUBLIC LICENSE			^
Version 3, 29 Ju	ne 2007			
Copyright (C) 20	007 Free Software Foundation, Inc	. < <u>http://fsf.or</u>	<u>'a/</u> >	
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and conditions o	he GNU Lesser General Public Lifer f version 3 of the GNU General Pul l permissions listed below.			
	permissions instea below.			~
Cancel	Nullsoft Install System v3.0		I Agre	e

d. It prompts you to select components to install, select 'Next.'

💿 Arduino Setup: Installation (	Options	—		×
Check the components yo you don't want to install.			e compone	ents
Select components to install:	Install Ardul Install USB d Create Start Create Desk Associate .in	river Menu shortcu top shortcut	ıt	
Space required: 401.1MB				
Cancel Nullsoft Instal	System v3.0	< Back	Nex	t >

e. Next it shows the destination folder to install, select 'Install.'

Arduino Setup: Installation Folder	-		×
Setup will install Arduino in the following folde folder, dick Browse and select another folder installation.			
€3			
Destination Folder			1
C:\Program Files (x86)\Arduino\		Browse	
Space required: 401.1MB			
Space required: 401.1MB Space available: 130.0GB		4	

f. When Arduino setup is completed select 'Close.'

💿 Arduino Setu	p: Completed	—		×
Complete	d			_
Show details				
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3. Install Maxim's Pocket IO Board.

a. Locate the **'Arduino'** shortcut on your desktop and double click the icon to open the Arduino IDE.

b. A window opens as shown below, select **File > Preferences**.



c. In the **'Preferences'** window there is a section **'Additional Boards Manager URLs.'** Select this box.

C:\Users\sean.long\Docum	nents\Arduino	Browse
Compiler warnings: Display line numbers Enable Code Folding Verify code after uploa Use external editor Check for updates on	12 Automatic 100 \$ % (requires restart of Arduino) g: compliation upload None None startup new extension on save (.pde -> .no)	s restart of Arduno)
Additional Boards Manager	URLs:	10 IC
More preferences can be e	dited drectly in the file	
	ta\Local\Arduino15\preferences.txt	
(edit orly when Arduino is	not running)	

d. In the box that opens, copy and paste the URL below into this window and select **'OK'**, then **'OK'** again.

https://raw.githubusercontent.com/maximTicer/pocketio/master/package\_maxim\_index.json

Additional Boards Manager URLs	×
Enter additional URLs, one for each row	
Click for a list of unofficial boards support URLs	
	OK Cancel

e. Select Tools > Board > Board Manager.

e con sector ro	ols Help		
sketch_aug19	Auto Format Archive Sketch Fix Encoding & Reload	Ctrl+T	
oid setup()	Serial Monitor	Ctrl+Shift+M	^
// put your	Serial Plotter	Ctrl+Shift+L	
	WiFi101 Firmware Updater		
oid loop() {	Board: "Arduino/Genuino U	no" 3	Boards Manager
// put your	Port		Arduino AVR Boards
	Get Board Info		Arduino Yún
	Programmer: "AVRISP mkli" Burn Bootloader		Arduino/Genuino Uno     Arduino Duemilanove or Diecimila     Arduino Nano     Arduino Kega ADK     Arduino Kega ADK     Arduino Leonardo     Arduino/Genuino Micro     Arduino/Genuino Micro     Arduino Esplora     Arduino Ethernet     Arduino Fio     Arduino BT     LilyPad Arduino USB
		Arduino/Genuir	LilyPad Arduino Arduino Pro or Pro Mini Arduino NG or older Arduino Robot Control

f. Open the 'Boards Manager' window and from the drop down Type menu select 'Certified.'

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Intel 1686 Boards by Intel Boards included in this packager Idison. More info	
Intel Curie Boards by Intel Boards included in this packages Arduinn/Genuino 101. More info	
	Close

g. Select 'Intel i686 Boards by Intel' for Edison and click 'Install' to install rev 1.6.7+1.0 or later.

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Intel IS86 Boards by Intel Beards included in this package: Galileo. <u>More Info</u>			Ŷ
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h. Once installation is completed, select 'Close.'

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i. Open the **'Boards Manager'** window and from the drop down Type menu select **'Contributed.'** 

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loards included in this	(32-bits ARM Cortex-M0+) by Arduino package: Arduino/Genuino MKR1000.	
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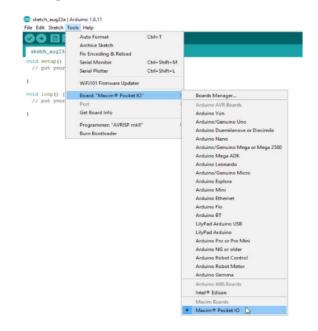
j. Select 'Maxim Boards by Maxim Integrated' for Pocket IO and click 'Install.'

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k. Once installation is completed, select 'Close.'

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- 4. Using the Pocket IO with Arduino IDE.
  - a. To select Pocket IO as the target board, select **Tools > Board > Maxim Pocket I**O.



b. Make sure Pocket IO is powered with 24V, and connect the USB cable to the micro-USB connector labeled 'Edison Status' (the one nearest to the green connector). If device drivers are not automatically installed use this link to download and install the drivers: http://downloadmirror.intel.com/24909/eng/IntelEdisonDriverSetup1.2.1.exe

c. Select Tools > Port > COMXXX (where xxx is whichever COM port was selected when you plugged it in).

sketch_aug23:	Auto Format Archive Sketch Fix Encoding & Reload	Ctrl+T			
id setup()	Serial Monitor	Ctrl+Shift+M			
// put your	Serial Plotter	Ctrl+Shift+L			
	WiFi101 Firmware Updater				
id loop() [	Board: "Maxim® Pocket IO"		>		
// put your	Port: "COM7 Intel® Edison)"		3		Serial ports
	Get Board Info			~	COM7 (Intel® Edison)
	Programmer: "AVRISP mkil"		>		
	Burn Bootloader				

d. Next select File > Examples > PioDo > PioDoBlink.



e. A new window should appear with the example sketch selected. Press the circular button with the check mark in the top left corner to **'Verify'** or compile the sketch.

PioDoBlink   Arduino 1.6.11	-	$\times$
File Edit Sketch Tools Help		
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* PicDoBlink		
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* Toggle the Digital Outputs		
(*)		
* D01, D02, D03, D04, D05, D06, D07, D08		

f. The window indicates it is compiling with a progress bar, and when finished, displays **'Done Compiling.'** 



g. Now select the circular button with the right arrow, **'Upload'** transfers the data to the Edison and starts to run the compiled program.



h. After a few seconds the message **'Done Uploading'** is displayed and you can see the LEDs on the board flashing driven by the digital outputs.

i. A number of standard functions are included as examples to showcase the functionality of Pocket IO, or the user can develop their own sketches.

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