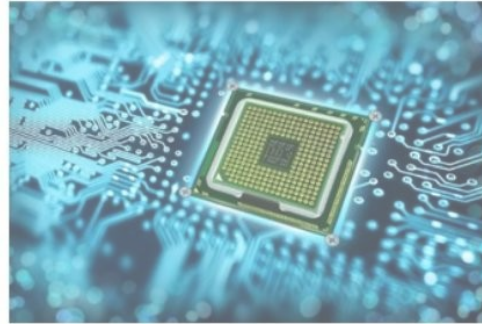


CARTE CURIOSITY

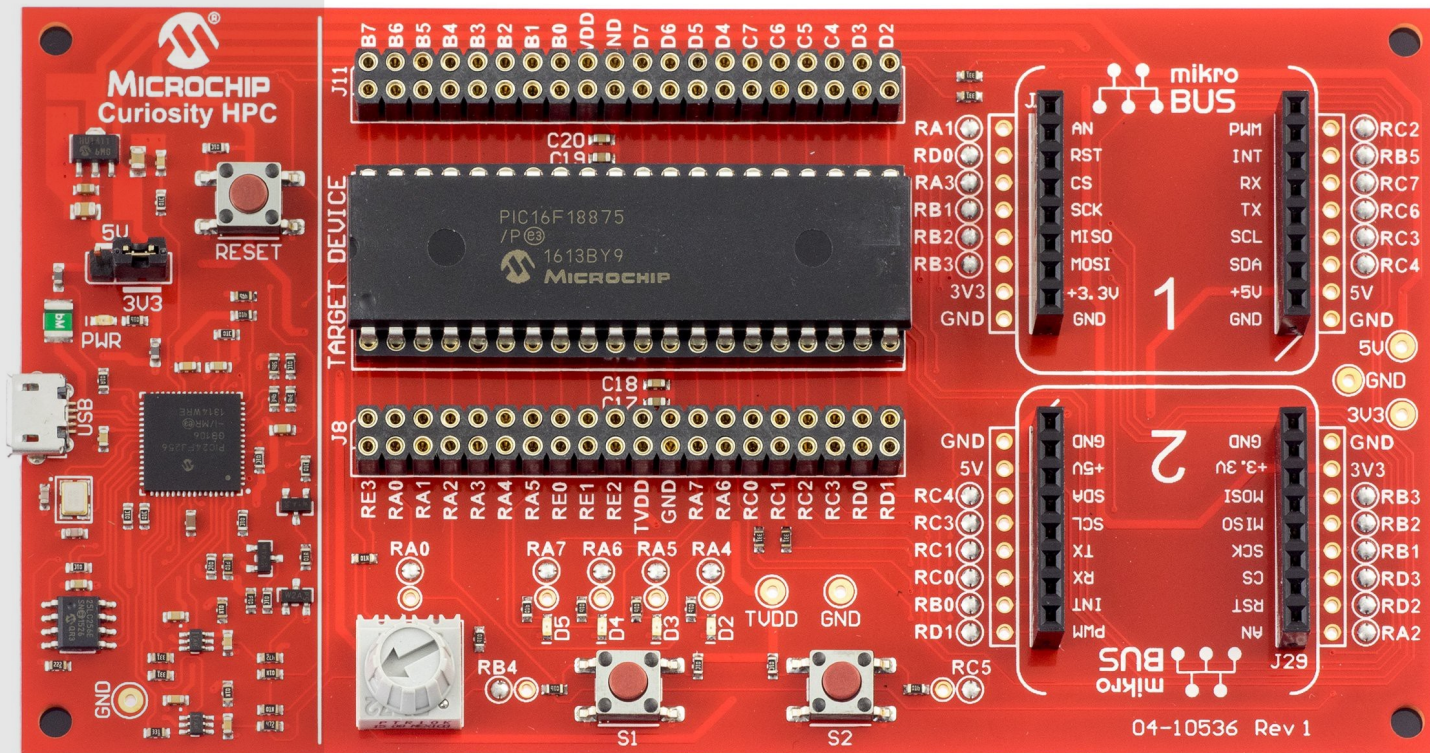


SYSTÈMES EMBARQUES

Starter Kit Curiosity HPC

Programmer/Debugger

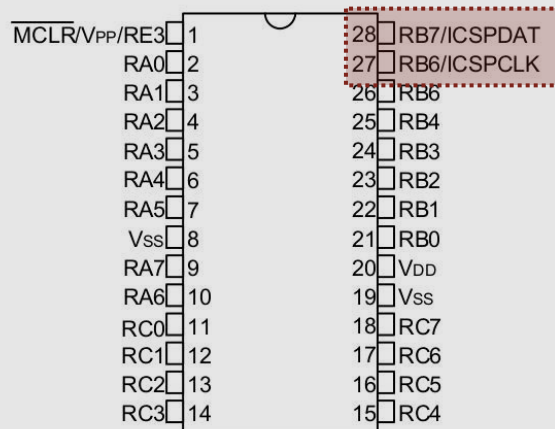
Application



Sans bootloader déjà programmé dans le processeur, nous devons utiliser une sonde JTAG (Join Test Action Group) afin de charger voire debugger le programme depuis l'IDE sur ordinateur vers le MCU cible. Un StarterKit embarque déjà une sonde de programmation à côté du processeur cible de test. Sinon, nous pouvons utiliser des sondes externes plus polyvalentes (ICD4, PICKIT4, etc chez Microchip).

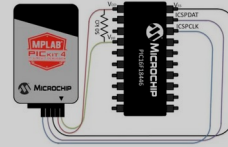
PIC18F27K40

SPDIP 28 pins package



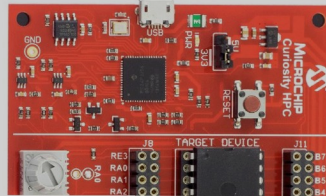
External PICKIT4

JTAG in-circuit programmer/Debugger



CURIOSITY HPC Starter Kit

with JTAG in-circuit programmer/Debugger

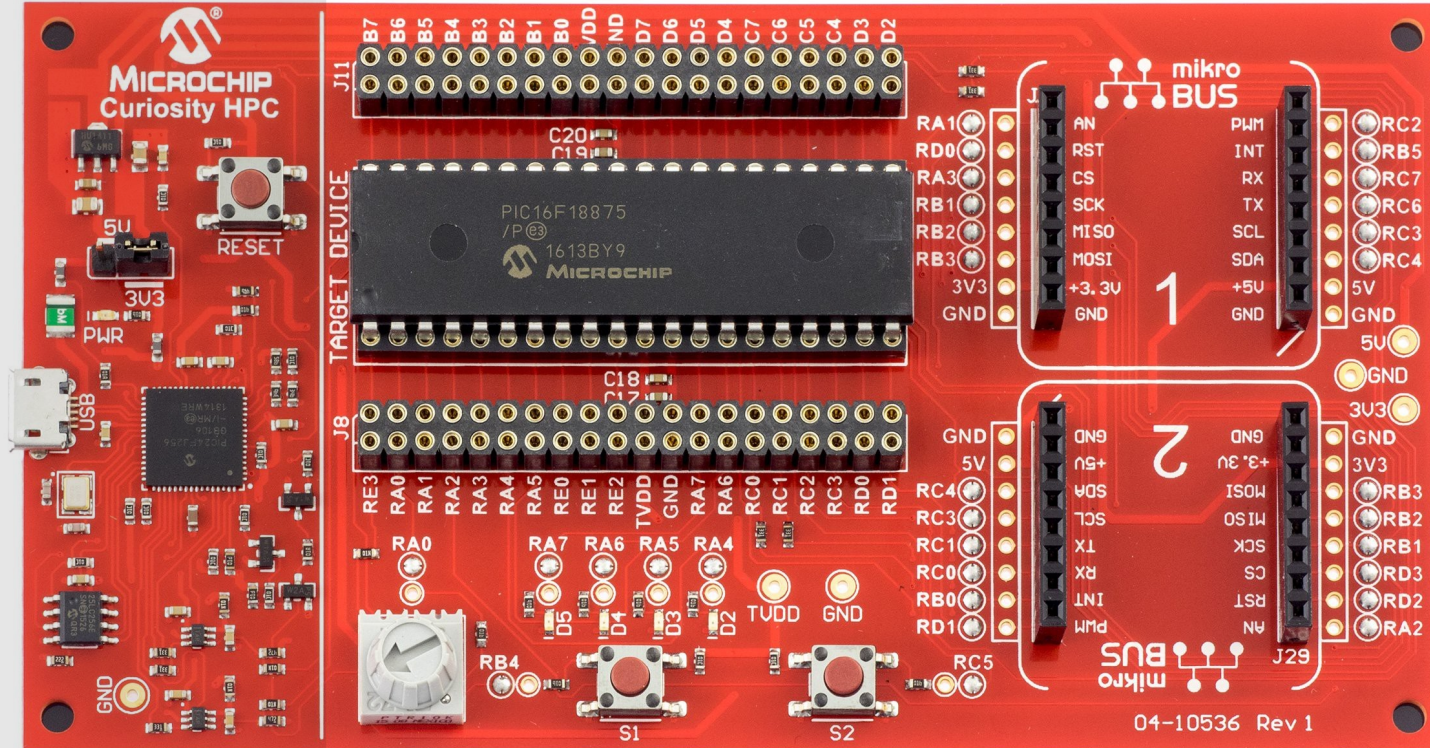




SYSTÈMES EMBARQUES

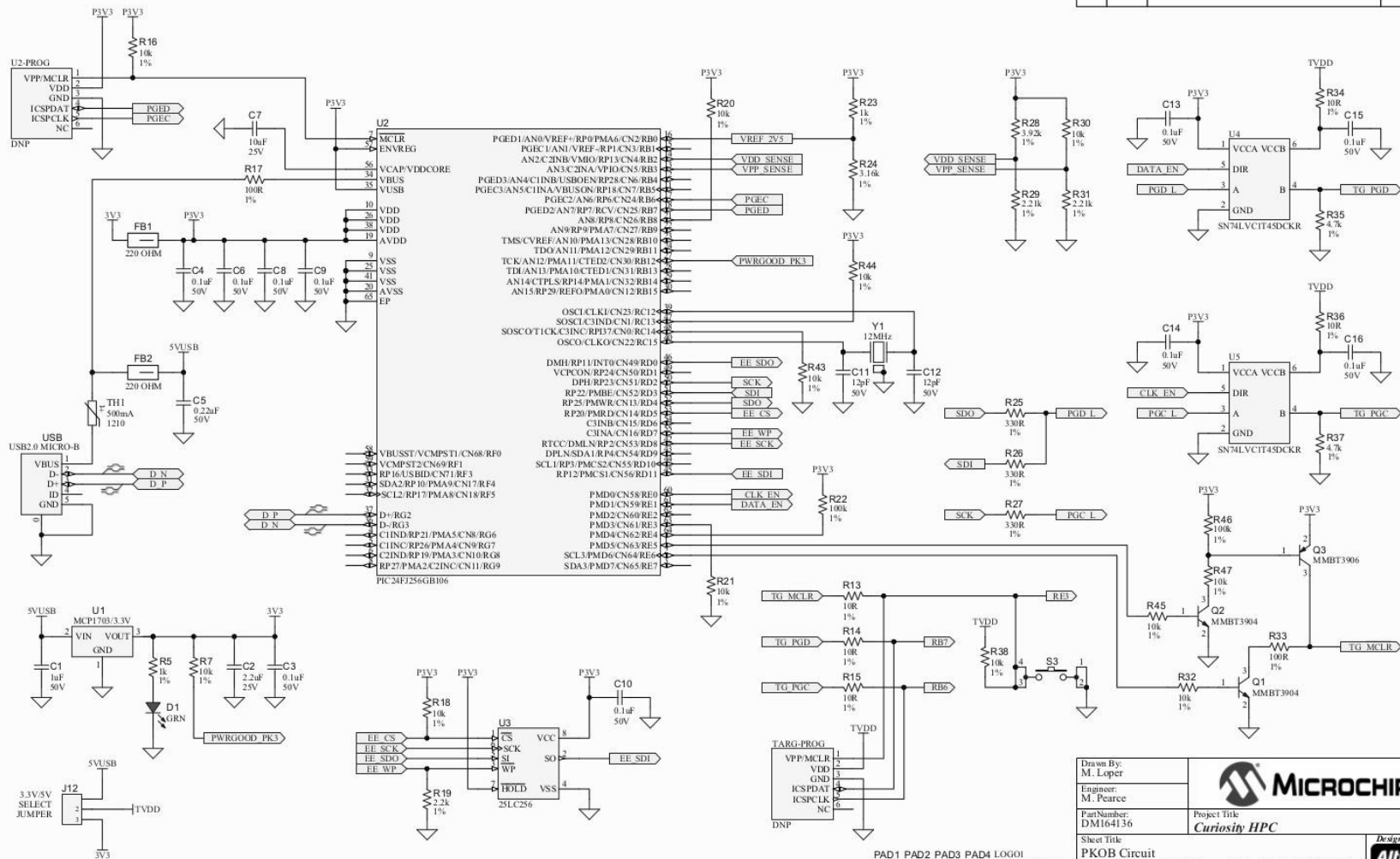
Starter Kit Curiosity HPC

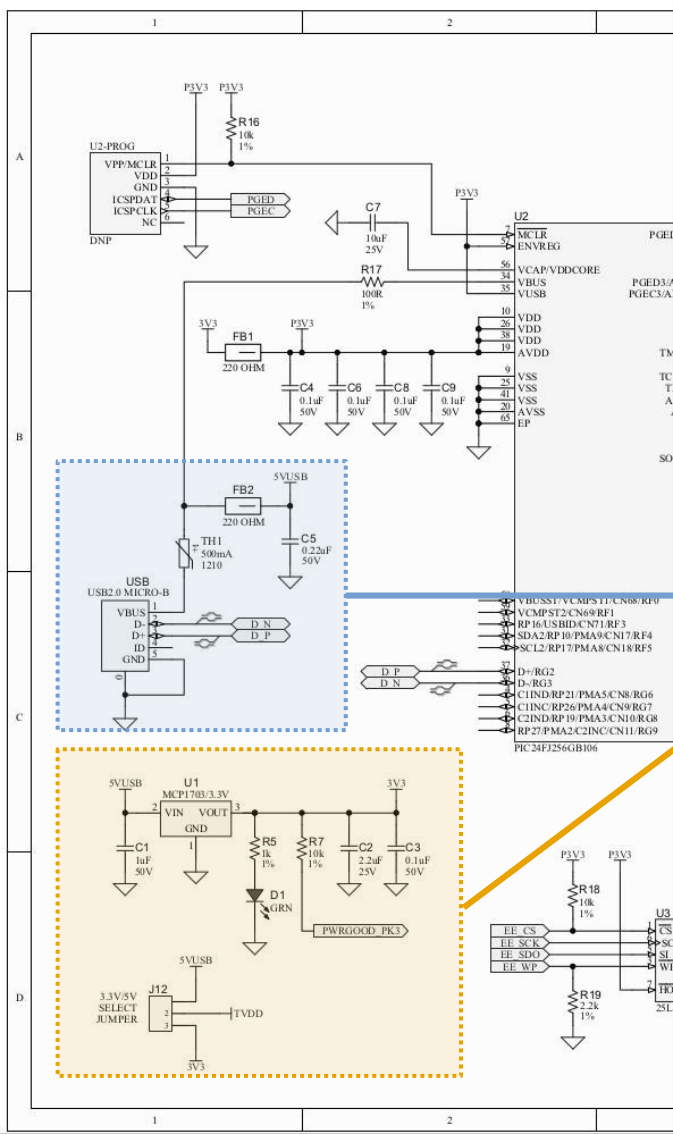
Programmer/Debugger

Application



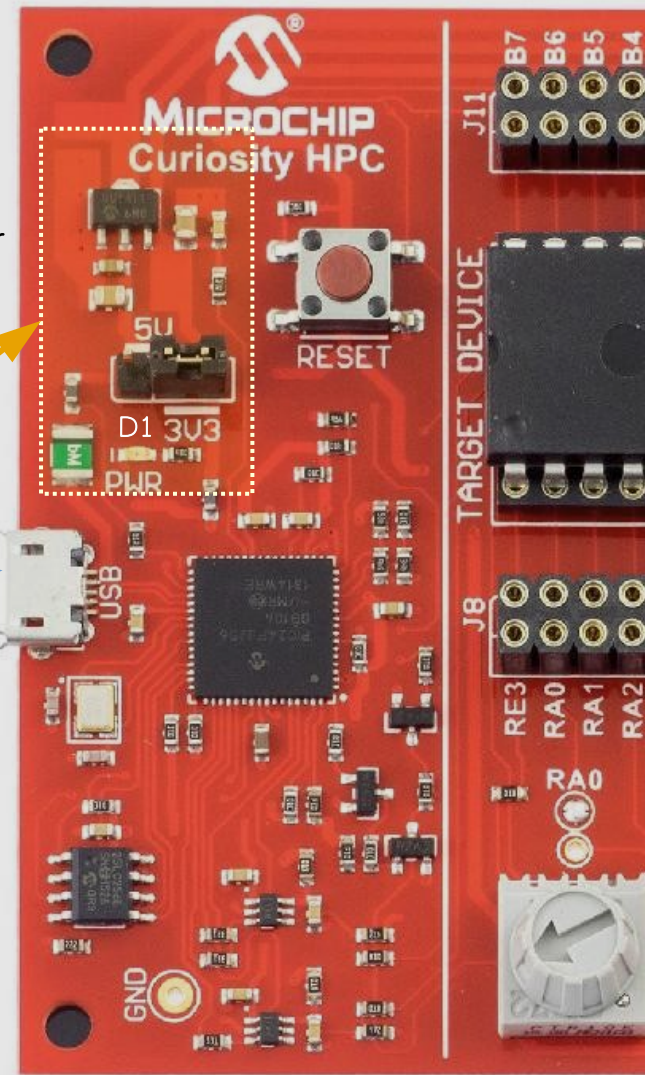
Drawn By: M. Loper	 MICROCHIP	
Engineer: M. Pearce		
Part Number: DM164136	Project Title <i>Curiosity HPC</i>	Designed with Alum Alum.com
Sheet Title PKOB Circuit		
Size B	Sch # 03-10536	Date: 3/31/2016 10:48:21 AM
Revision 1	Sheet 2 of 2	



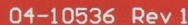


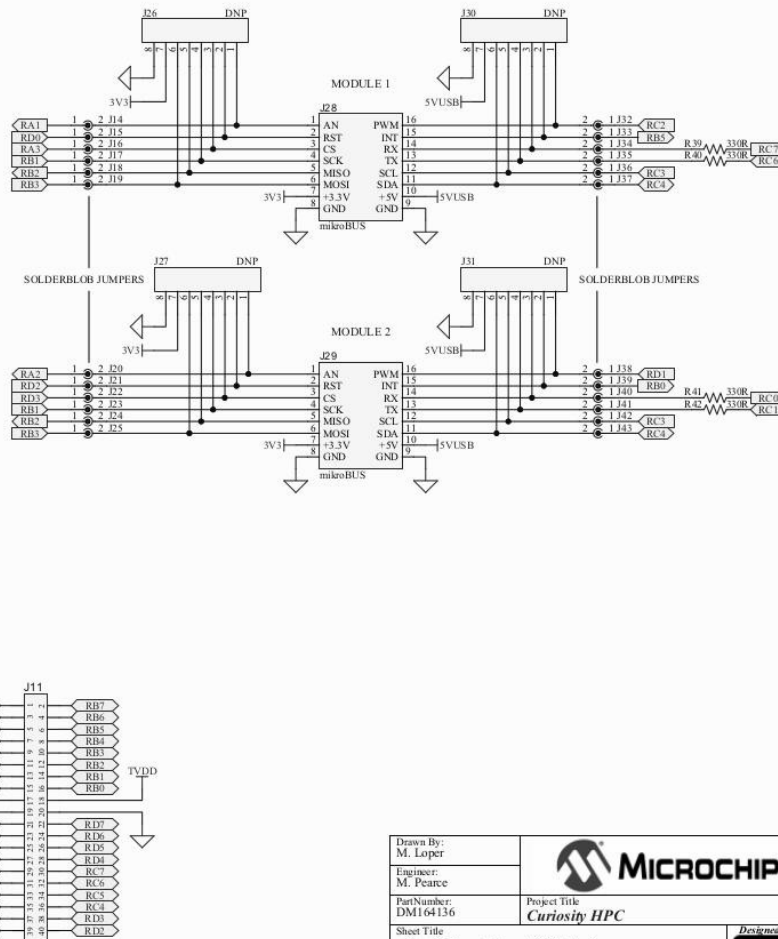
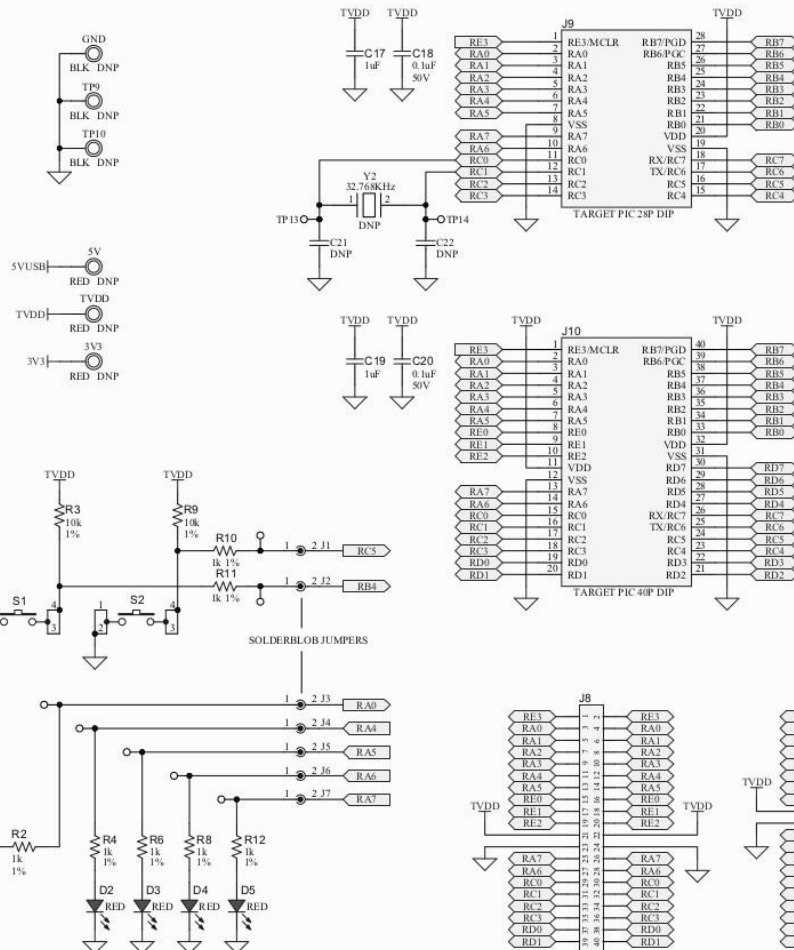
Power regulator
5V to 3,3V



Micro USB
Connector
5V Power

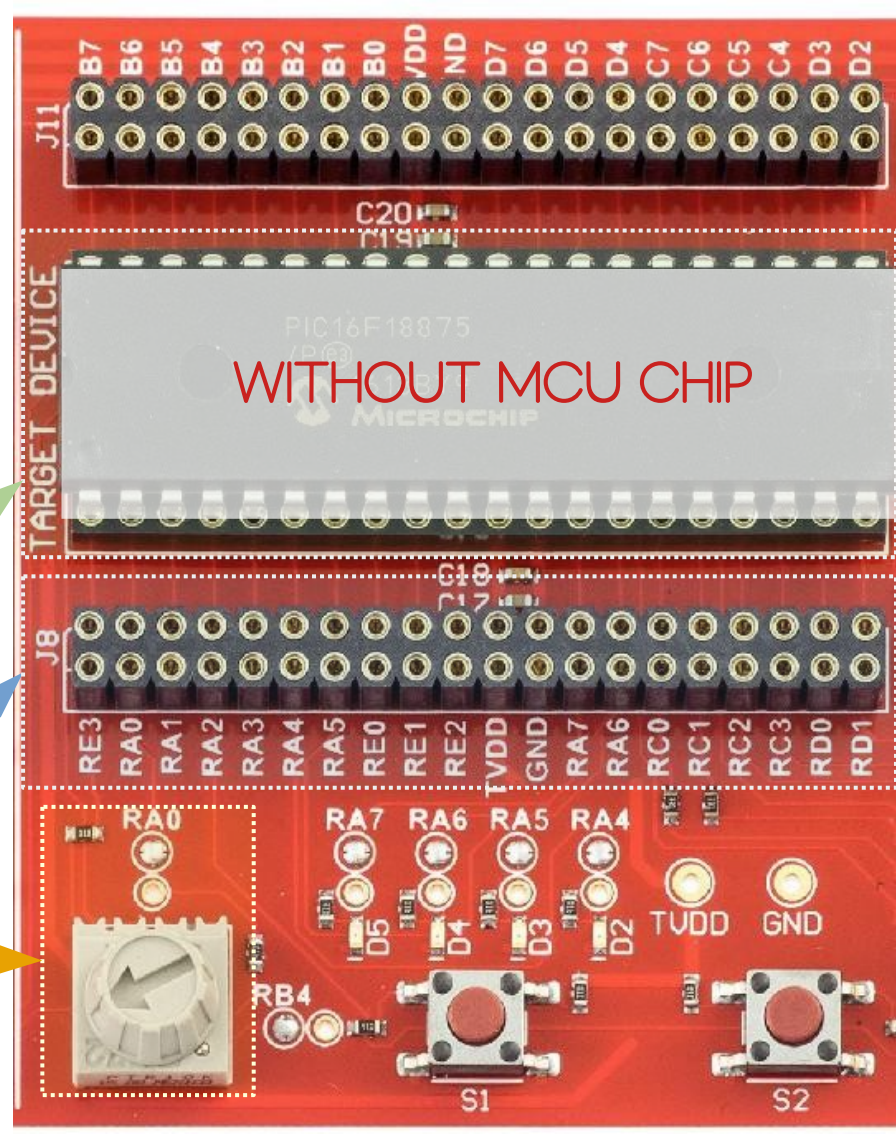
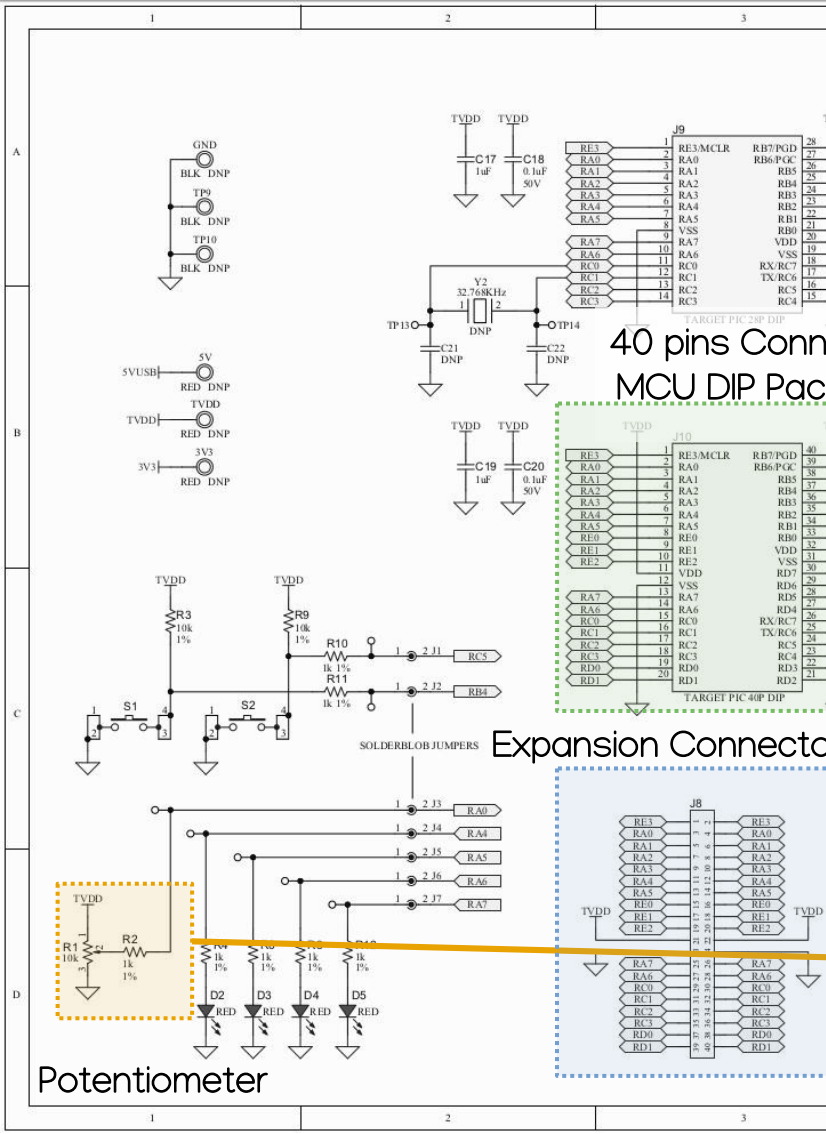


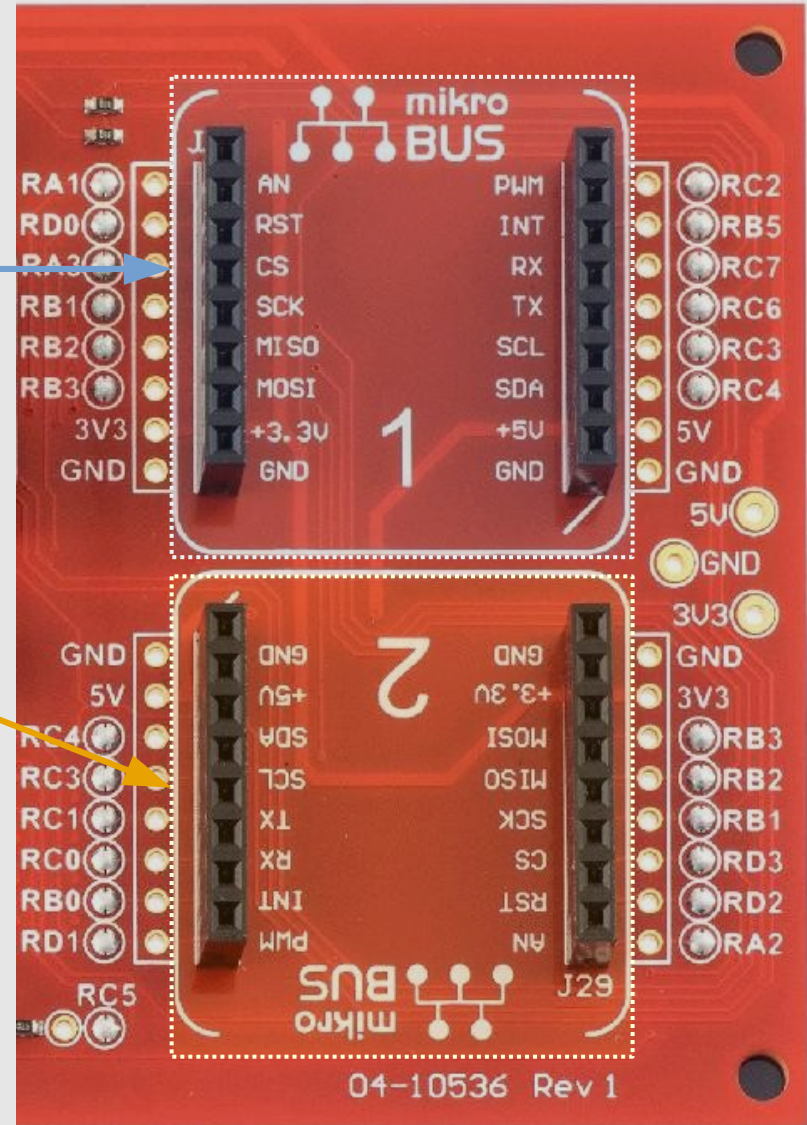
Application



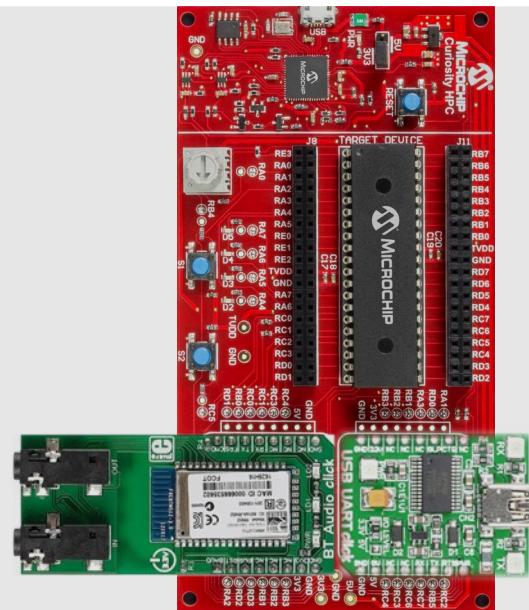
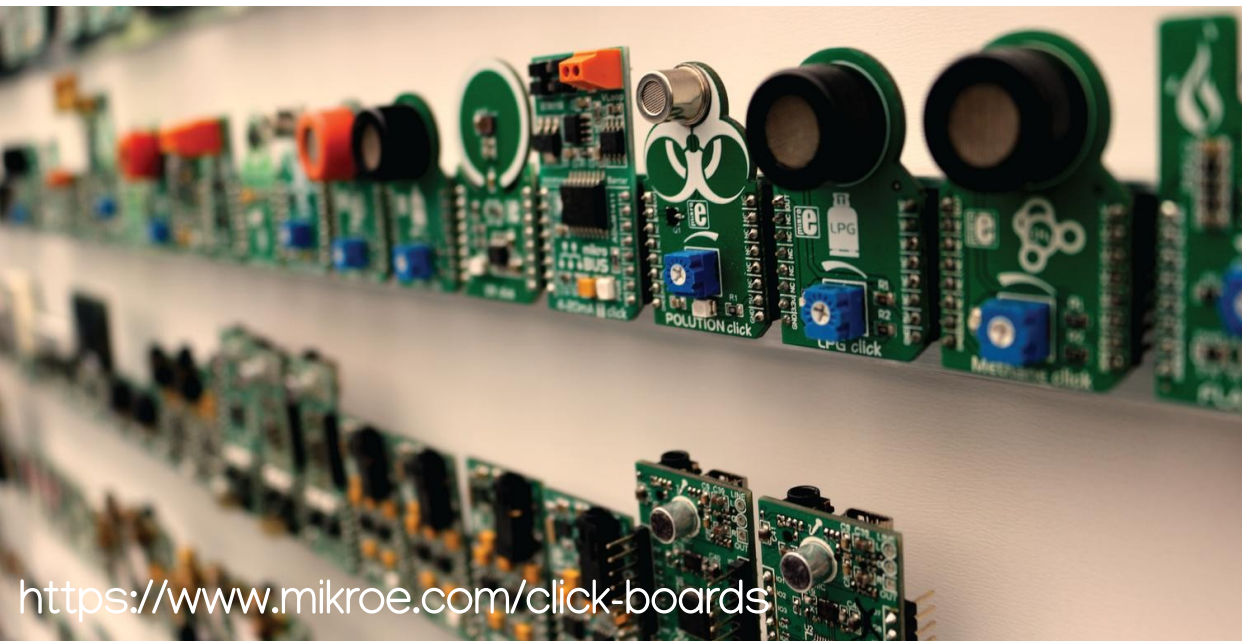


Drawn By: M. Loper	 MICROCHIP		 <i>Designed with</i> Altium www.altium.com
Engineer: M. Pearce			
Part Number: DM164136	Project Title <i>Curiosity HPC</i>		
Sheet Title microBUS and Target PIC Interface			
Size B	Sch #03-10536 Revision 1	Date: 3/31/2016 10:48:21 AM Sheet: 1 of 2	
File: m_104136			



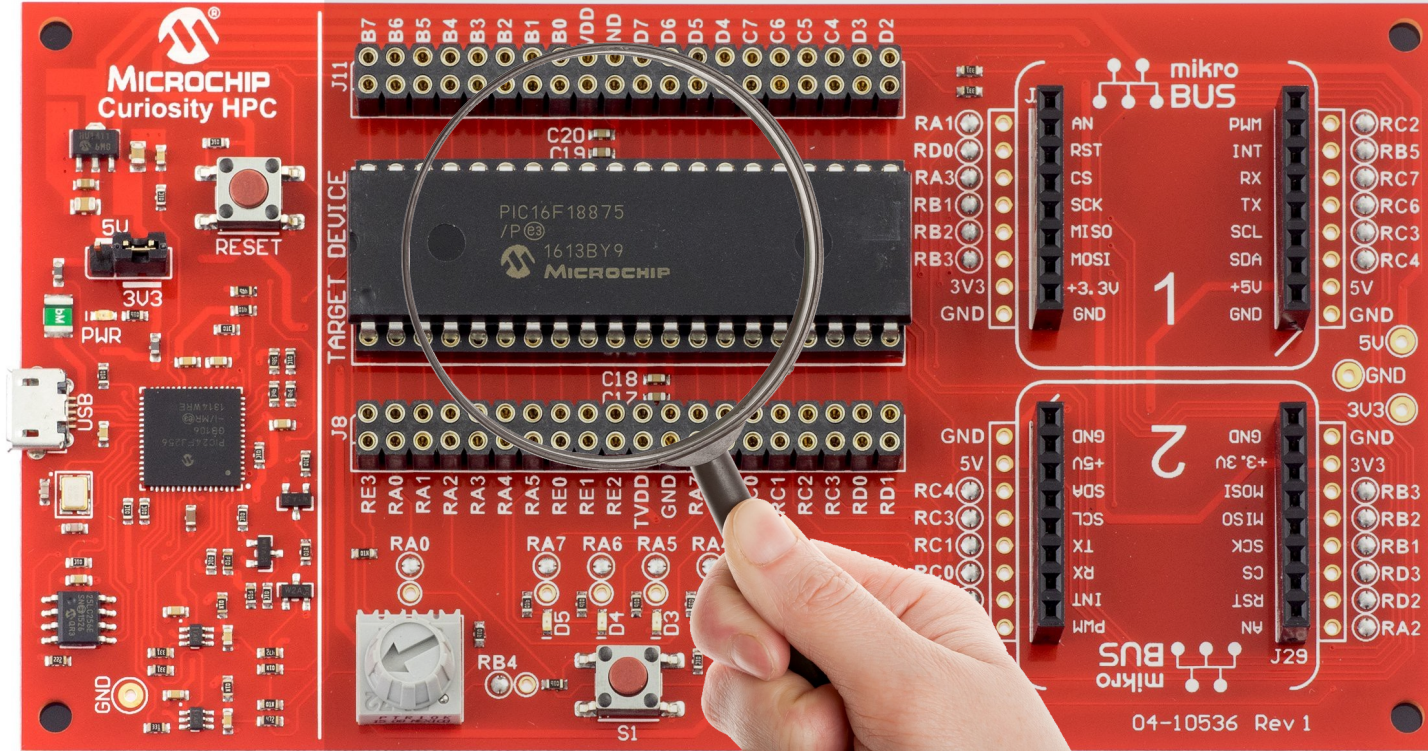


La carte Curiosity HPC possède deux connecteurs mikroBUS permettant également d'ajouter des modules externes Click Board proposés par la société Mikroelektronika. Des centaines de modules externes sont actuellement disponibles en catalogue (Bluetooth, audio, WIFI, contrôle de moteur, afficheurs LCD, capteurs divers, etc)

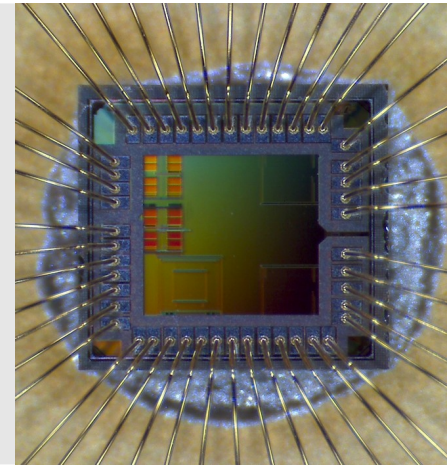


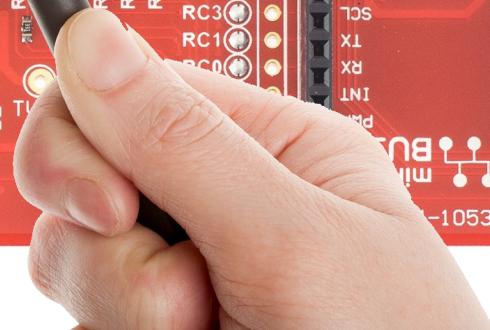
Programmer/Debugger

Application



Comme la plupart des composants électronique, un MCU peut être décliné en plusieurs boîtiers ou packages par le fabricant (DIP, BGA, QFN, SOP, etc). Chaque boîtier offrant en général un ensemble d'avantages et d'inconvénients. Il est à noter que seul le boîtier change (encombrement, accessibilité des broches, dissipation thermique, prototypage ou production, techniques de dépose, etc). La puce de silicium embarquée est la même. La curiosity HPC, en tant que matériel de prototypage, est elle dédiée aux boîtiers DIP 28 ou 40 broches.





SKETCHDREAM

A stylized, sketchy illustration in grayscale. It depicts a large, curved, white object, possibly a piece of machinery or a large container, with several horizontal lines indicating motion or vibration. Below this, there are more mechanical components, including what looks like a cylindrical part and some structural beams. The overall style is that of a hand-drawn sketch.