

## Assignment 2 Details

- Design Exercise using a Zilog Z8.
- 11 questions
- Please read the questions **carefully!**
- Only submit the assignment which has been made for your student number.
  
- **DUE 1<sup>st</sup> of May 2015**
- Late submissions will adhere to the universities late submission policies.
- <https://www.latrobe.edu.au/policy/documents/late-submission-of-assessment-tasks-procedure.pdf>

## Question 4 (Choose a suitable z8)

- Look through data sheets for both the 64k and F0830
- ‘Typically’ the processors that have smallest amount of functionality are the cheapest...
- This may not be the case always and is why you need to do a price comparison.

## Question 4 (Choose a suitable z8)

- For Z8 64K series
- Find ordering information page and replace the 'C' at the end of the part number with 'G'.

Z8 Encore!® 64K Series  
Product Specification



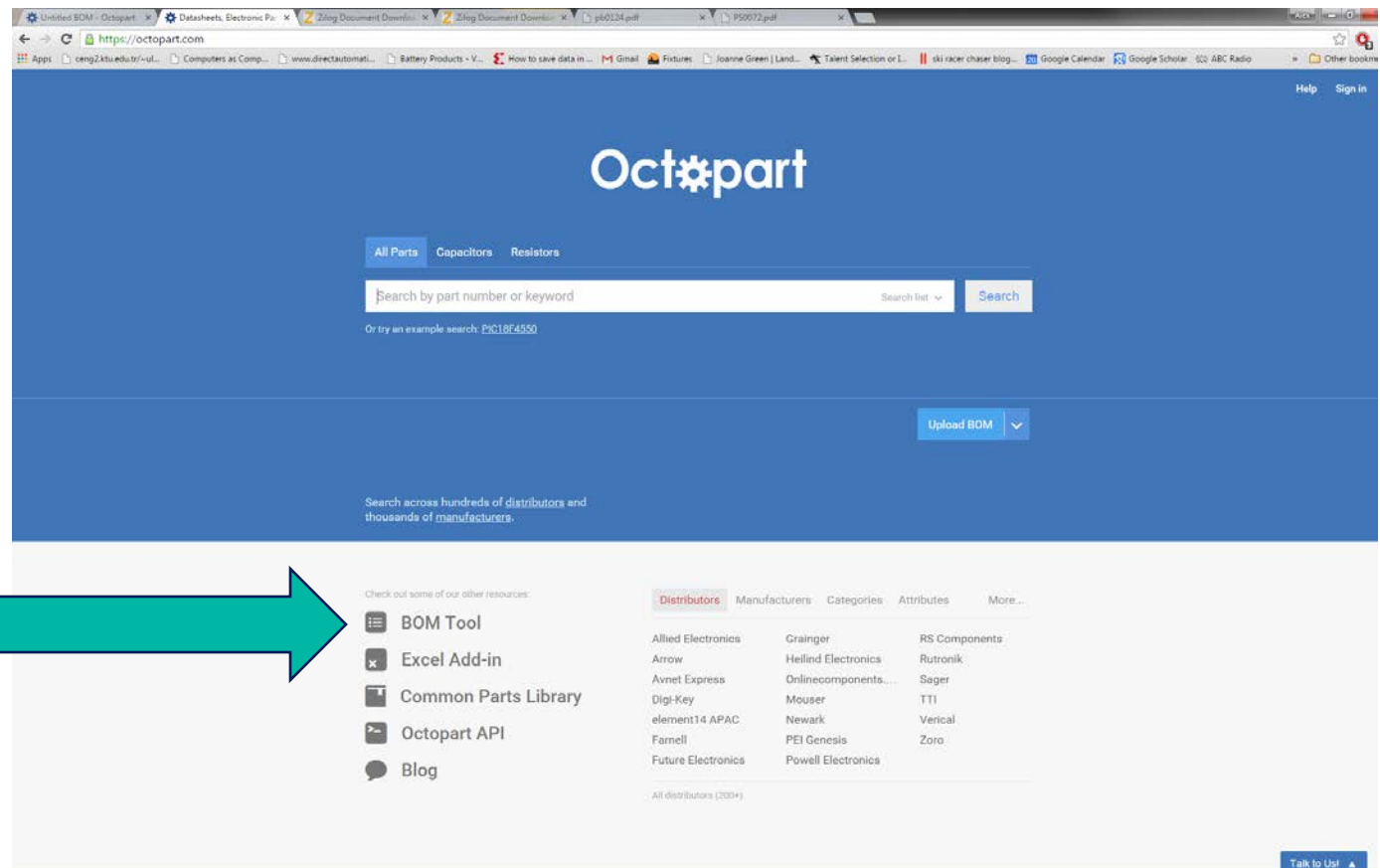
265

### Ordering Information

Part Number	Flash/ROM	RAM	I/O Lines	Interrupts	16-Bit Timers w/PWM	10-Bit A/D Channels	I <sup>2</sup> C	SPI	UARTs with IrDA	Description
<b>Z8F16xx with 16KB Flash, 10-Bit Analog-to-Digital Converter</b>										
Standard Temperature: 0° to 70°C										
Z8F1621PM020SC	16KB	2KB	29	23	3	8	1	1	2	PDIP 40-pin package
Z8F1621AN020SC	16KB	2KB	31	23	3	8	1	1	2	LQFP 44-pin package
Z8F1621VN020SC	16KB	2KB	31	23	3	8	1	1	2	PLCC 44-pin package
Z8F1622AR020SC	16KB	2KB	46	24	4	12	1	1	2	LQFP 64-pin package
Z8F1622VS020SC	16KB	2KB	46	24	4	12	1	1	2	PLCC 68-pin package
Extended Temperature: -40° to +105°C										
Z8F1621PM020EC	16KB	2KB	29	23	3	8	1	1	2	PDIP 40-pin package
Z8F1621AN020EC	16KB	2KB	31	23	3	8	1	1	2	LQFP 44-pin package
Z8F1621VN020EC	16KB	2KB	31	23	3	8	1	1	2	PLCC 44-pin package
Z8F1622AR020EC	16KB	2KB	46	24	4	12	1	1	2	LQFP 64-pin package
Z8F1622VS020EC	16KB	2KB	46	24	4	12	1	1	2	PLCC 68-pin package

## Question 4 (Choose a suitable z8)

- Go to [www.octopart.com](http://www.octopart.com)
- Click 'BOM tool' and then 'Create a new BOM'



Octopart

All Parts Capacitors Resistors

Search by part number or keyword Search list Search

Or try an example search: PSC10E4550

Upload BOM

Search across hundreds of distributors and thousands of manufacturers.

Check out some of our other resources:

- BOM Tool
- Excel Add-in
- Common Parts Library
- Octopart API
- Blog

Distributors Manufacturers Categories Attributes More...

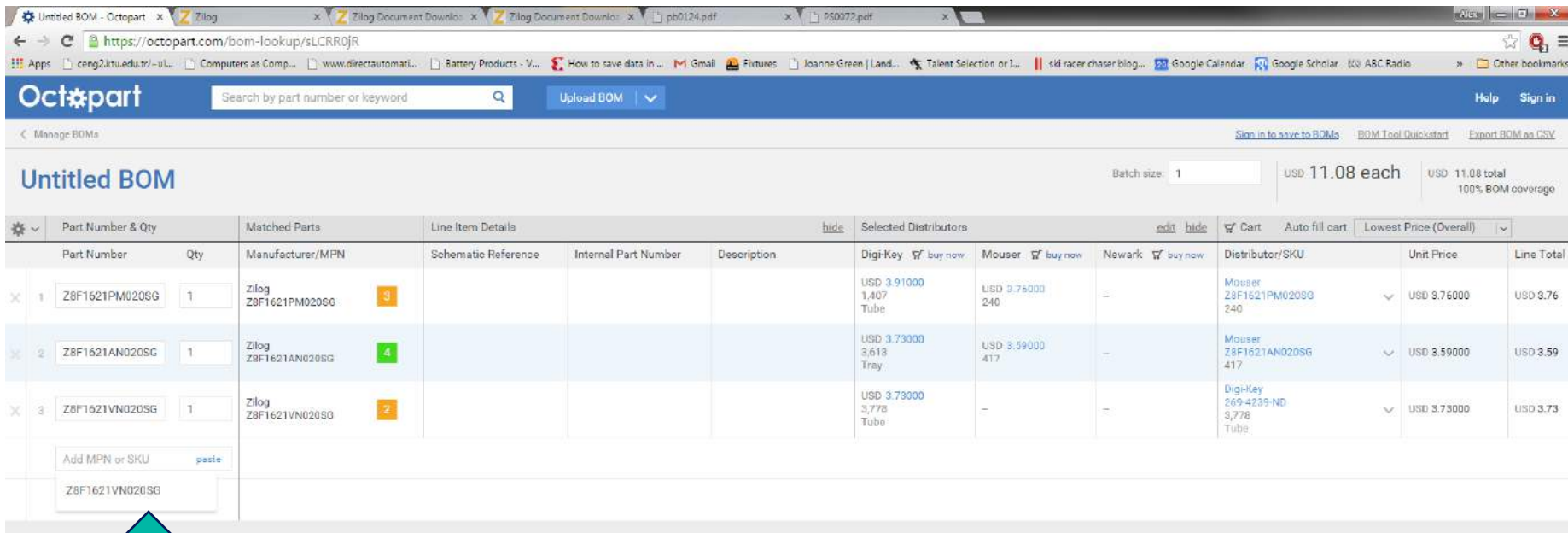
Allied Electronics	Grainger	RS Components
Arrow	Hellind Electronics	Rutronik
Avnet Express	Onlinecomponents...	Sager
Digi-Key	Mouser	TTI
element14 APAC	Newark	Verical
Farnell	PEI Genesis	Zoro
Future Electronics	Powell Electronics	

All distributors (200+)

Talk to Us!

## Question 4 (Choose a suitable z8)

- Type in part numbers you want to find a price for.
- Compare prices and find the cheapest part!!
- Justify your decision based on price and functionality!



Octopart Search by part number or keyword Upload BOM Help Sign in

Manage BOMs Sign in to save to BOMs BOM Tool Quickstart Export BOM as CSV

Untitled BOM Batch size: 1 USD 11.08 each USD 11.08 total 100% BOM coverage

Part Number & Qty	Matched Parts	Line Item Details	Selected Distributors	Cart	Auto fill cart	Lowest Price (Overall)
Part Number Qty	Manufacturer/MPN	Schematic Reference Internal Part Number Description	Digi-Key buy now Mouser buy now Newark buy now	Distributor/SKU	Unit Price	Line Total
1 Z8F1621PM020SG 1	Zilog Z8F1621PM020SG 3		USD 3.91000 1,407 Tube USD 3.76000 240	Mouser Z8F1621PM020SG 240	USD 3.76000	USD 3.76
2 Z8F1621AN020SG 1	Zilog Z8F1621AN020SG 4		USD 3.73000 3,613 Tray USD 3.59000 417	Mouser Z8F1621AN020SG 417	USD 3.59000	USD 3.59
3 Z8F1621VN020SG 1	Zilog Z8F1621VN020SG 2		USD 3.73000 3,778 Tube	Digi-Key 269-4239-ND 3,778 Tube	USD 3.73000	USD 3.73

Add MPN or SKU paste

Z8F1621VN020SG

## How to submit

- Submit electronically via LMS.
- You can scan, take a photo using your phone etc, then import that into Word.
- Once you have a word document create a PDF and then use that file to upload onto LMS.
  
- Good luck 😊