

510108

1

1

51	5101	39 65	6-25-04-08 2-02-10-06		1+X

1

2

2

1				
2				
3				

4				
5				
6			C FPGA JAVA	C FPGA JAVA

1.

(1)

(2)

(3)

(4)

2

(1)

(2)

(3)

(4)

(5)

(6) C

(7)

IO

(8)

(9)

(10)

(11)

(12)

3

(1)

(2)

(3)

(4)

1+X

“

”

1.

2

1

5

C

PLC

2

7 ,

JAVA

1+X

				C		PLC
	3					
A		6	12	6		Androi d
		6	12	6		
B		24			12	
Python			FPGA		Ardui no	
	4					
	1.					
	1					

“ ”

“

”

2

“

”

“

”

“

”

“

”

“

”

“

”

3

4

“ ” “ ” “ ”

“ ”

5

“ ”

6

7

1-2

,

,

8

“ ”

1

2

3

9

10

11

,

,

,

12

50%

13

14

15

,

2

1

“

”

PLC

PLC

PLC

PLC

PLC

PLC

PLC

PLC

PLC

C

C

C

C

C

C

2

Protel DXP

Protel DXP

C
C

Proteus

JAVA

JAVA

JAVA

JAVA

JAVA

JAVA

3

ARM

ARM

ARM

32

FPGA

FPGA

Altera Xilinx Actel

wifi zigbee

wifi zigbee

ABB

plc

Ardui no

Ardui no

Ardui no

Ardui no

Ardui no

Ardui no

Ardui no

Androi d

Androi d

Androi d

Androi d

4

1+X

1+X

C

STC15

C

1+X

1+X

6	99000612A	2	1	8	8	0		8					
7	99000622C	3		8	0	8			8				
8	99000062A	4		8	8	0				8			
9	99000072A	5		8	8	0					8		
10	99000082B	(1)	3	56	30	26	3/56						
11	99000092B	(2)	4	72	46	26		4/72					
12	99000122B	(1)	2	36	4	32	2/36						
13	99000132B	(2)	2	36	4	32		2/36					
14	99000142B	(3)	2	36	4	32			2/36				
15	99000542B		3	48	24	24	3/48						
16	99000592B		2	32	4	28		1/16	1/16				
17	99000602A		1	16	16	0		16					
18	99000582B		2	32	16	16			2/32				
19	99000172B	(1)	2	12	6	6	12						
20	99000182B	(2)		12	6	6			12				
21	99000192B	(3)		12	6	6				12			
22	99000572B		2	32	28	4		2/32					
23	99000702B	(1)	2	16	8	8	16						
24	99000712B	(2)		16	8	8		16					
25	99000212C		2	56	0	56	56						
26	99000202A		1	12	12	0	12						
			39	716	384	332	16/264	11/230	8/140	4/74	0/8		
27	990000023	2-5	2	36	18	18					2/36		
			2	36	18	18					2/44		
			41	752	402	350	16/264	10/230	8/140	4/74	2/44		
28	02090010B		3	56	40	16	4/56						

5				60
6				60
				30
			1+X	60
7				30
8				30

B

			/	
	3		120 /	
			120 /	
			120 /	

" "

	<p>1.</p> <p>2.</p> <p>PLC</p>
--	--------------------------------

1.

“ 1410+N” “ ”
 (“ ” “ ” “ ”
 “ ”) “ ” (“ ”
) “ ”

2

“ ” “ ”

3

— —

4

”

“

1+x

1+x

5

135

70

39

26

6

6 7

6

1	1+X				1+X
2					

7

1		B			
2					

1

2

3

