

		_						
CS ₂	CS,	CS0	OP	C	Gn	So	51	52
0	0	0	Add	×	0	1	×	0
0	0	1	AND		0	0	1	1
0	ı	0	Add	X	\setminus \circ	1	· ×	0
0	1		Transfer A		0		×	0
1	0	0	De crement A	1		0	$\setminus \times$	0
1	\boldsymbol{c}	1	XOR	0		0	0	1
1	l	O	Add with com	X	1	1	\downarrow ×	0
	1		Add with comm	/\ ×	1	1	X	10
	,				-	and the comments of the second of the second	A CONTRACTOR OF THE CONTRACTOR	

$$C = \overline{CS_0}$$
(1 NAND)

$$S_0 = \overline{D_0} \overline{D_2} + \overline{D_6} \overline{D_7}$$

$$(1 \text{ NAND}, 1 \text{ OR})$$

$$S_2 = \overline{D_1 D_5}$$

$$(1 NAND)$$

$$C_{in} = \overline{D_6} \overline{D_{\chi}}$$

(1 NAND)

$$\begin{array}{c|c}
s_1 & o & 1 \\
o & \times & 1 \\
o & \times & \times \\
\hline
11 & \times & \times \\
10 & \times & \odot
\end{array}$$

$$s_1 = \overline{D}_5$$

1 3-8 Decoder 1 4-bit Full Adder

3 Quad 2x1 MUX

2 Quad XOR

1 Quad AND

1 Quad OR

1 Quad NAND 7.