

	Conversions				
Binary	Unsigned Decimal	Signed Decimal (2's Complement)	Signed Decimal (1's Complement)	Signed Decimal (Excess-128)	BCD
01110110	118	+118	+118	-10	76
00000000	0	0	0	-128	0
11111111	255	-1	0	127	INVALID
01111111	127	127	127	-1	INVALID
10000000	128	-128	-127	0	80
01001001	73	73	73	-55	49
10010100	148	-108	-107	20	94

				Binary Arithmetic						
A	Binary Value	0101	0110	0000	1000	1111	1110	1100	0100	1001
	Unsigned Decimal Value	5	6	0	8	15	14	12	4	9
	Signed Decimal Value (2's Complement)	+5	+6	0	-8	-1	-2	-4	+4	-7
B	Binary Value	1101	0001	1000	1000	0100	1111	1011	0110	0111
	Unsigned Decimal Value	13	1	8	8	4	15	11	6	7
	Signed Decimal Value	-3	+1	-8	-8	+4	-1	-5	+6	+7
A ? B	Unsigned < = >	<	>	<	=	>	<	>	<	>
	Signed < = >	>	>	>	=	<	<	>	<	<
A + B	Binary Value	0010	0111	1000	0000	0011	1101	0111	1010	0000
	Carry	Y	N	N	Y	Y	Y	Y	N	Y
	Unsigned Decimal Value	2	7	8	0	3	13	7	10	0
	Unsigned Overflow	Y	N	N	Y	Y	Y	Y	N	Y
	Signed Decimal Value	+2	+7	-8	0	+3	-3	+7	-6	0
	Signed Overflow	N	N	N	Y	N	N	Y	Y	N
A - B	Binary Value	1000	0101	1000	0000	1011	1111	0001	1110	0010
	Borrow	Y	N	Y	N	N	N	N	N	N
	Unsigned Decimal Value	8	5	8	0	11	15	1	14	2
	Unsigned Overflow	Y	N	Y	N	N	Y	N	Y	N
	Signed Decimal Value	-8	+5	-8	0	-5	-1	+1	-2	+2
	Signed Overflow	Y	N	Y	N	N	N	N	N	Y