Open - SPI
remote

closed- I2C

P1

sda	1	2	+5V
scl	3	4	GND
GND	5	6	
rst	7	8	
int	9	10	GND
rem	11	12	
	13	14	
mosie	15	16	
	17	18	GND
scke	19	20	cse
	21	22	

D1

rem

JP1

R1 4k7 +3.3V

sw

GND

R2 4k7 +3.3V

int

R4 4k7

rst

K2

IDC-06

	1	2	
sda	3	4	scl
	5	6	GND

SC18IS602BIPW

sda	7	sda	miso	5	
scl	8	scl	mosi	6	mosii
			sck	11	scki
			cs0	1	csi
	14	a0	cs1	2	
	15	a1	cs2	10	
	16	a2	cs3	13	
			~int	9	int
rst	3	~rst			
GND	4	gnd	vcc	12	+3.3V

U1

C1 1u
U3 XC6206

+5V 3 vin vout 2 +3.3V

1 adj/gnd

GND

C2 1u

GND

sda R5 *4k7 +3.3V

scl R6 4k7

74hc4053

cse	13	1Y1	S1	11	sw
csi	12	1Y0	1Z	14	cst
mosie	11	2Y1	S2	10	sw
mosii	2	2Y0	2Z	15	mosit
scke	3	3Y1	S3	9	sw
scki	5	3Y0	3Z	4	sckt
	6	~E			
	7	vee	vcc	16	+5V
GND	8	gnd			

U2

+5V
C3 47.0 uf
C4 0.1
GND

R3 39 K

+5V iset

MAX7221

mosit	1	din	segA	14	
	24	dout	segB	16	
sckt	13	clk	segC	20	
cst	12	~cs	segD	23	
			segE	21	
			segF	17	
			segG	22	
			segDP		
iset	18	iset	dig0	2	
+5V	19	vcc	dig1	11	
			dig2	6	
			dig3	7	
GND	4	gnd	dig4	3	
	9	gnd	dig5	5	
			dig6		
			dig7	8	

U4

LED1

NSA1166

1	nc	
2	nc	
7	Aa	14
15	Ba	16
3	Ca	20
11	Da	23
9	Ea	21
17	Fa	15
13	Ga	17
5	DPa	22
6	c1	
8	c2	2
10	c3	11
12	c4	6
14	c5	7
16	c6	3
4	nc	5
18	nc	

Comment	Description	Designator	Footprint	LibRef	Quantity
cap0805	Capacitor	C1, C2, C4	SM0805	cap0805	3
CAP_POL_SMB	CAP_POL_SMB(3528)	C3	CAP_POL_SMB (3528)	CAP_POL_SMB	1
DiodeShottky_SOD323	SOD323	D1	SOD323	DiodeShottky_SOD323	1
JUMPER2		JP1	JUMPER2	JUMPER2	1
IDC-06		K2	IDC-06	IDC-06	1
NSA1166	NSA retro 7 seg display	LED1	NSA1166	NSA1166	1
2x11,2.54mm vertical	Header, 22-Pin	P1	PLD-22 ,2x11 ,2.54 mm pitch	2x11, 2.54mm, vertical	1
res0805	Resistor	R1, R2, R3, R4, R5, R6	SM0805	res0805	6
SC18IS602BIPW	i2c to SPI bridge	U1	SSOP16_body_4.5mm	SC18IS602BIPW	1
74hc4053	3 independent SPDT CMOS switch	U2	SSOP16_body_4.5mm	74hc4053	1
XC6206	SOT-23-3 ldo	U3	SOT-23	XC6206	1
MAX7221	7 seg 8 digits driver	U4	WSOIC_24_body_7.5mm	MAX7221_WSOIC24	1