

AIS decoder with Ethernet interface

Bill of materials

<http://www.open-hw.net>

Qty	Value	Reference	Package
6	100N	C1, C2, C4, C7, C8, C15	Ceramic capacitor 0.2" pitch
5	22p	C3, C5, C12, C13, C10	Ceramic capacitor 0.2" pitch
1	470 μ / 25V	C6	Radial electrolyc capacitor pitch 5mm, diameter 10.5mm
1	1 μ / 16V	C9	Radial electrolyc capacitor pitch 2.5mm, diameter 5mm
1	100 μ / 16V	C11	Radial electrolyc capacitor pitch 2.5mm, diameter 5mm
1	10N	C14	Ceramic capacitor 0.2" pitch
2	15N	C16, C17	Ceramic capacitor 0.2" pitch
1	10k	R1	0.25W Resistor
3	100k	R2, R3, R10	0.25W Resistor
1	33k	R4	0.25W Resistor
1	1M	R5, R11	0.25W Resistor
1	510k	R6	0.25W Resistor
2	150	R7, R8	0.25W Resistor
1	180k	R9	0.25W Resistor
1	500k	GAIN	6mm trimmer
1	1N4004	D1	Diode 1N4004
1	R-78E3.3-0.5	IC1	Recom R-78E3.3-05
1	ATMega 8	IC2	Atmel ATMega8
1	CMX589	IC3	CMX589
1	LM358N	IC4	LM358N
1	8MHZ	Q1	Crystal HC49
1	4.9152M	Q2	Crystal HC49
1	POWER	LED1	Green LED 3mm
1	CRC	LED2	Yellow LED 3mm
1	BNC	X1	BNC female connector
1	SMA	X2	SMA female connector
1	Power	X3	Standard power connector
1		X4	Stereo 1/8" audio connector
1	XPORT	X5	Lantronix X port
1	ICSP port	PROG	2x6 pin header
1	NRX1H	M1	Radiometrix NRX1H
1	S1	RESET	Tactile switch
1	TP1	RSSI	Test point

Note: Only X1 OR X2 is needed. Mount as required.