

ARDUINO INTERFACING

PIN n°	Function	Comments
2	ISD mode	to pin 27 ISD
3	Buzzer out	H = Buzzer active
4	ISD PD/reset	to pin 24 ISD
5	ISD CE	to pin 23 ISD
6	Transceiver DC supply Control	H = Supply power to transceiver
7	LCD RS	to pin 4 WINSTAR 2x 24 WH2402A
8	LCD EN	to pin 6 WINSTAR 2x 24 WH2402A
9	LCD D4	to pin 11 WINSTAR 2x 24 WH2402A
10	LCD D5	to pin 12 WINSTAR 2x 24 WH2402A
11	LCD D6	to pin 13 WINSTAR 2x 24 WH2402A
12	LCD D7	to pin 14 WINSTAR 2x 24 WH2402A
13	PTT	H = TX (connect to NPN transistor via 4k7, take PTT at open collector) as per codeplug
A0	SQL / Carrier detect	via 1/2 voltage divider 2x 4k7 in series to ground (as per codeplug)
A1	CTCSS detect	as per codeplug
A2	temperature sensor	NTC 10k to ground, pull-up R 10k to +5v
A3	FAN control	output H = FAN running
A4	Vcc measure	System 13.8v measure. Voltage divider 1k2 and 4k7 in series
A5	CW tone out	to trimmer 10k for audio level adjust
A6	RSSI input	
A7	Po sensor	RF output power probe (provide about 2.5v for 25W)
<u>Remarks:</u>		
	LCD pin R/W	pin 5 WINSTAR 2x 24 WH2402A : connect to GND
	LCD Backlight	pin 16 WINSTAR 2x 24 WH2402A : connect to GND & pin 15 to +5v via R 470hm 2W
	LCD Contrast	pin 3 WINSTAR 2x 24 WH2402A : connect to wiper timmer 10k between 0 and +5v