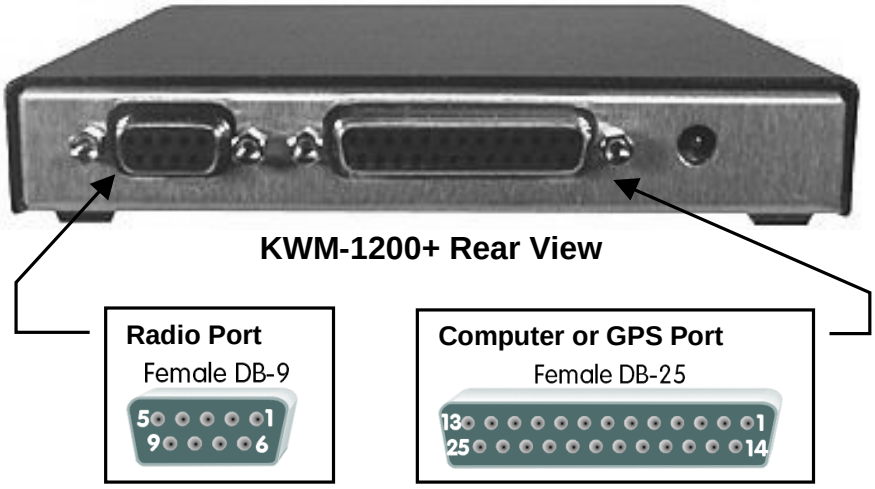
Kantronics

Kantronics KWM-1200+ Port Pinout Information



Radio Port (DB-9) Pin-out:

Pin no.	Signal name	Function	Related Jumpers
1	TXA	Transmit audio (AFSK out)	J9
2	XCD	External carrier detect (transmit inhibit) input.	
3	PTT	Push-to-talk (to radio PTT / transmitter enable input)	
4	CTRLB/AN0	Control line B (or AN0 input)	J8
5	RXA	Receive audio (AKSK in)	J3, J4
6	GND	Ground	
7	EXT-IN	External input for Power/Reset	J6, J7
8	CTRLA /AN1	Control line A (or AN1 input)	J10
9	GND / RESET	Ground or Reset Input (jumper selectable)	J5

To find corresponding pin-outs for many radios, visit www.packetradio.com.

Port-Related Jumpers

J3: Input Impedance Select

1 **2**	RXA input impedance 10 kΩ. (default)
1 **2**	RXA input impedance 600 Ω.

J4: Radio Port Pin 9 Function Select

1 **2**	Input Equalization on.
1 **2**	Input Equalization off. (default)

J5: Radio Port Pin 9 Function Select

1 **CTR** **2**	Radio Port pin 9 is ground. (default)
1 **CTR** **2**	Radio Port pin 9 is external reset input.

J6: EXT-IN Reset / Input Select

1 CTR 2		EXT-IN is external reset input.
1 CTR 2		EXT-IN is external power input.
1 CTR	2	EXT-IN not connected. (default)

J7: EXT-IN Port Select

1 CTR 2	EXT-IN connects via Computer Port pin 13.
1 CTR 2	EXT-IN connects via Radio Port pin 7. (default)

J8: Analog Input AN0 (channel 0) port select

1 CTR 2	Radio port pin 4
1 CTR 2	Computer port pin 18

J9: (NOR/HT) Configures the AFSK output line

NOR CTR HT	Normal, for base station use. (default)
NOR CTR HT	AFSK output line also serves as PTT (for HT radios)

J10: Analog Input AN1 (channel 1) port select

1 CTR 2	Radio port pin 8
1 CTR 2	Computer port pin 11

Computer / GPS Port (DB-25) Pin-out:

Pin no.	Signal name	Function	Related Jumpers
1	FG	Frame Ground. Connected to the equipment chassis as a safety ground.	
2	TXD	Transmit Data: Carries data from a Computer or GPS to the KWM-1200+.	
3	RXD	Receive Data: Carries data from KWM-1200+ to a Computer	
4	RTS	Request to Send. Tells the KWM-1200+ when the computer is ready to accept more input from the KWM-1200+. Used for hardware flow control.	
5	CTS	Clear to Send. Indicates whether KWM-1200+ is ready to accept more input from the computer. Used for hardware flow control.	
7	SG	Signal Ground. Common reference line for signals. (Internally tied to frame ground in the KWM-1200+).	
6	DSR	Data Set Ready. Indicates the KWM-1200+ is powered up.	
8	DCD	Data Carrier Detect. Signals the status of the current I/O stream to your computer. If you are connected to another packet station on the current I/O stream, this output will have a positive voltage on it. If you are disconnected, the voltage on this output will be negative.	
11	None / AN1	None / Analog Input channel 1 (jumper selectable)	J10
13	None / EXT-IN	None / External Power Input / External Reset Input (jumper selectable)	J6, J7
18	None / AN0	None / Analog Input channel 0 (jumper selectable)	J8
20	DTR	Data Terminal Ready. Usually indicates when the computer's port is active. Currently ignored by the KWM-1200+.	

Notes:
To prevent damage to your PC or other external device, make sure that the jumpers controlling the use of pin 13 of this port are in their factory default "none" position if you are not using a cable specifically wired for external power / external reset applications.

All cables must be well shielded.