

KWM-1200+

KWM-9612+

Kantronics, a pioneer in wireless data communications, now offers the KWM-1200+ Single Port and the KWM-9612+ Multi Port High Speed wireless modems. Both are engineered for dependable and versatile digital communications in the commercial operating environment.

Kantronics has developed the KWM units to meet the needs of today, with an eye toward emerging applications. Able to communicate in a variety of formats, including TCP/IP,

LSUB and TUP, KWM units are seamless and transparent wire link substitutes. KWM units can also operate as a data operated switch, (DOX).

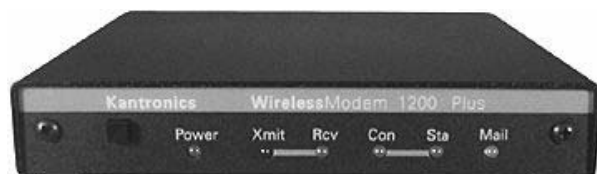
KWM units can fill a variety of roles. They are well made, engineered for dependability and low in cost. It's no wonder Kantronics units are in use around the world.

KWM-1200+ AND KWM-9612+ FEATURES:

- Remote Control and telemetry functions with two NO inputs and two control line outputs.
- Digital audio drive control. Set from keyboard or by remote control
- GPS operation mode (NMEA-0183 compatible) allows use with geolocation software.
- Low current requirements
- Large capacity internal mailbox supports multiple users
- 9-V battery power capability (KWM-1200+)
- LSUB, TUP, POLL, AX.25, BBS, KISS, XKISS, HOST, TERMINAL, GPS and MODEM operating modes
- Upgradeable as new firmware is released
- "Online" HELP feature
- 128 k memory standard; 512 k optional
- Use with base, mobile or hand-held radios

KWM-9612+ ADDITIONAL FEATURES:

- NEW Paging transmit/receive capability - POCSAG compatible
- Dual port 1200/9600 bps operation, standard
- Port 1 supports 1200 bps
- Port 2 supports 4800, 9600, 19200 and 38400 bps with DFSK modulation format



KWM-1200+



KWM-9612+



SPECIFICATIONS – KANTRONICS KWM-1200+

Dimensions (HWD)	0.8" x 5.2" x 5.2" or 21mm x 133 mm x 133 mm (w/o projections)
Weight	11 oz or 0.32 kg
Power Requirements	6 V dc ~ 25 V dc, less than 30 mA (LEDs on, unit active) 6 V dc ~ 25 V dc, less than 15 mA (LEDs off, unit inactive)
Plug	Coaxial, center pin positive 2.1 mm
Internal	Circuit Board accommodates user installed 9-V battery connector
Connection Ports	DB-9 female (radio) DB-25 female (computer/data terminal)
Watchdog timer	2.5 min (approx)
External Carrier Detect	Pulldown to ground
A/D Converter	Two inputs; 0 ~ 5 V dc 8-bit accuracy
Data Rate	1200 bps (recommended); 300, 400, 600
PTT Output	Open drain, +50 V dc max, 200 mA max
Audio Output	Continuously adjustable 1 mV p-p – 4 v p-p
Output impedance	600 Ω, ac coupled
Modulation	1200 bps FSK full duplex CCITT V.23 1300 Hz/2100 Hz
Audio Input	
Sensitivity	5 mV p-p
Dynamic Range	70 dB
Input Impedance	Unbalanced, 10 kΩ; 600 Ω with Jumper J3 installed
Max input voltage	± 12 V dc; 35 V p-p sinusoidal
Operating Modes	LSUB, TUP, AX.25, WeFax, KISS, XKISS, HOST, GPS, MODEM, POLL
LED Indicators (user option on/off)	Power, Xmit, Rcv, Connected, Status, Mail
Remote Control Access	External Reset
Operating Protocols	AX.25 Versions 1 and 2 (user selectable)
Compliance	FCC Class B; Europe – CE Conformity



SPECIFICATIONS – KANTRONICS KWM-9612+

Dimensions (HWD)	0.8" x 6.7" x 6.9" or 20 mm x 170 mm x 175 mm (w/o projections)
Weight	18 oz. or 0.5 kg (approx)
Power Requirements	5.5 V dc ~ 25 V dc, 45 mA (LEDs on, unit active)
Plug	Coaxial, center pin positive 2.1 mm
Internal	Circuit Board accommodates user installed 9-V battery connector
External	DB-9 female (radio port 1); DB-15 female (radio port 2)
Connection Ports	DB-25 female (computer/data terminal)
Watchdog timer	3 min (port 1), 40 s (port 2) (approx.)
External Carrier Detect	Pulldown to ground
A/D Converter	Two inputs; 0 ~ 5 V dc 8-bit accuracy Z in = 20 kΩ
Data Rate Port 1	4800, 9600, 19,200, 38,400 bps
PTT Output	Open drain, +50 V dc max, 200 mA max
Audio Output Port 1	Continuously adjustable 1 mV p-p ~ 4 V p-p
Audio Output Port 2	2 mV p-p ~ (J20 off); 80 mV p-p (J20 on)
Output Impedance	600 Ω, ac coupled (port1): 600 Ω, ac or dc coupled (port2)
Modulation Port 1	1200 bps FSK full duplex CCITT V.23 1300 Hz/2100 Hz
Modulation Port 2	Gaussian Filtered DFSK with normal Bandwidths of 0.3, 0.5 or full Duplex 4800, 9600, 19,200, 38,400 bps
Audio Input	
Sensitivity Port 1	5mv p-p ~ 35V p-p
Sensitivity Port 2	Low: 15 mV ~ 200 mV p-p (J16 on); High 80 mV ~ 2 V p-p (J20 on)
Dynamic Range	Port 1: >70 dB; Port 2: >20 dB (either range)
Input Impedance	Unbalanced, 10 kΩ, 600 Ω with Jumper J3 installed
Max Input voltage	Port 1: ± 12 V dc; 35 V p-p; Port 2: ± 25 V dc 25 V p-p
Equalization	Port 1: None or Fixed; Port 2: Variable, Software controlled
RX S/N	0-3 V dc (Zout = 2.2 kΩ)
Operating Modes	Packet, KISS, XKISS, Paging, Host GPS, Modem
LED Indicators	Power, Xmit, Rcv, Connected, Status, Mail
Remote Control Access	All controller functions, user defined password
External Reset	Pulldown to ground
Operating Protocols	AX.25 Versions 1 and 2 (user selectable)
Compliance	FCC Class B; Europe – CE Conformity

KWM-1200+ & KWM-9612+

Applications

- "Keyboard to keyboard" communications
- Digipeater-suitable for remote locations
- Electronic Mail Box
- Local area node
- Remote control devices
- Remote access of telemetry
- BBS operations and message forwarding
- GPS positioning transmitting and tracking (NMEA-0183 data required)
- Data storage and retrieval
- Send/Receive Files
- Send/Receive Paging signals (KWM-9612+ only)
- 1200 < >9600 gateway operation (KWM-9612+ only)

KWM units can be used in the field as a GPS mobile "tracker" or as a mobile data terminal. Its flexible power requirements (6 - 25 V dc) allow for maximum versatility.

KWM-1200+ Options:

- 120 V ac to 12 V dc power cube
- 512 k memory expansion chip. Clock (memory) chip
- Hardware Single Port (HSP) cable

KWM-9612+ Options:

- Third Port Expansion Module
- 120 V ac to 12 V dc power cube
- 512 k memory expansion chip
- Hardware Single Port (HSP) cable



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