



KEPLER DEVICE SERVER

UHF communication radio

INDUSTRIES

- Oil & gas
- Water & wastewater
- Renewable Energy
- Agriculture
- Heavy industrial

FEATURES

- UHF:430-470MHz
- Data or voice communication
- Fast start-up time: 5ms
- RF power : 1W - 5W programmable
- Serial Interface:TTL/RS-232/RS-485(8N1)
- Data transmission mode : transparent
- Channel spacing : 12.5KHz/25KHz programmable
- F3D / F3E modulation
- Optional - FSK, GMSK, 4FSK modem
- CTCSS/DCS encode/decode
- Pocsag support
- Digital SQ programmable
- LED status indicator
- Time out timer

APPLICATIONS

- Industrial telemetry & wireless remote control
- Gas & oil flow monitoring
- Electricity, water & gas utilities
- Earthquake, weather, environmental protection
- Urban lighting control
- Vehicle & asset tracking systems
- Water monitoring, wastewater management
- Irrigation control
- Railway, police, army automation system
- Aerial defense
- Fire alarm system
- Wireless paging system

CONTACT

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SPECIFICATIONS

GENERAL

- Frequency: VHF: 136-174 MHz
UHF: 430-470 MHz
- Channel spacing :12.5JHz/25KHz Programmable
- Modulation: F3D / F3E
- Number of channels: 16
- Nominal V: 12V DC
- Input: 9.5V ~ 16V DC
- Current: Standby <100mA
Transmit 5 watts RF power <1.5A
Transmit 1 watt RF Power <1A
- TX to RX attack time: <5ms
- RX to TX attack time: <5ms
- Frequency error: <2.5ppm
- Antenna connector: BNC 50Ω
- External interface: DB15 / DB9
- Operating temperature: -30°C ~ +65°C

SPECIFICATION

- Support pre-emphasis, squelch, CTCSS/DCS & audio amplifier
- Operating voltage: +12.5Vdc
- TX attack time: < 5ms
- Output power: 1 - 5W
- TX current: 5W RF power, 12V, 1.5A
1W RF power, 12V, 1A
- Standby current: 65mA
- RX sensitivity: <-119dBm
(12dB Sinad) <-115dBm maximum
- Transmit rate: FSK 1200bps, 4FSK 9600/19200 bps, GMSK 9600 bps

TRANSMITTER

- Power: 1W/2W/3W/4W/5W Programmable
- Frequency deviation: @ 25KHz - <2.5KHz
@ 12.5 KHz - <2.5KHz
@ Subsonic - <0.5KHz
- Audio response: @ 25KHz - 300Hz~3KHz +1/-3dB
@ 12.5KHz - 300Hz~2.55KHz +1/-3dB
- Adjacent channel power: @ 25KHz - <-70dBc
@ 12.5KHz - -65dBc
- Conducted spurious emission: <1GHz, <-36dBm
>1GHz, <-30dBm
- Modulation sensitivity: Voice 8~15mV
Data 80~130mV
- TX SNR: @ 25KHz - >45dB
@ 12.5KHz - >40dB

RECEIVER

- RX sensitivity: @ 25KHz: <-119dBm Extreme <-115dBm
(12dB SINAD) @ 12.5KHz: <-119dBm Extreme <-115dBm
- ACP: @ 25KHz >70dB
@ 12.5KHz >60dB
- Image rejection: >70dB
- IF rejection: >70dB
- Spurious rejection: >70dB
- Intermodulation suppression: >65dB
- Conducted spurious emission: <57dBm
- Audio distortion: <5%
- RX SNR: @ 25KHz: >45dB
@ 12.5KHz: >40dB
- Audio output: 0.5W @ 8 Ω load

