

Packet Data Radio

Specifications and Technical Information

GENERAL

Size.....10.6 " (L) x 4.0" x 2.42" (H)
 Weight.....3.5 lb
 Operating temperature range.....-30C to +60C
 Power requirements.....10 to 14 VDC
 stand-by current.....100 ma continuous
 transmit (50 msec average).....25A nominal @ 12 VDC

RECEIVER

Frequency.....36-50 MHz 0.0005%
 Modulation.....Synthesized 10KHz steps
 type.....GMSK
 rate.....9.6 Kbps / 19.2 Kbps
 format.....NRZ
 Noise figure.....<7 dB
 Sensitivity
 bit error rate <.001 @ 9.6 bps.....-114 dbm
 IF bandwidth (3/60 db).....13/40 KHz Typical
 RF bandwidth (3 db).....13 MHz Typical
 Signal acquisition time.....<5 msec
 3rd order intercept.....>4 dBm minimum
 Image response attenuation.....>70 dB minimum
 Spurious response attenuation.....>70 dB minimum
 SP threshold.....Adjustable from -115 to -106 dBm
 Triggered by DET RF & Demodulator Lock
 Noise blanker.....>20 dB Reduction in Impulse Noise

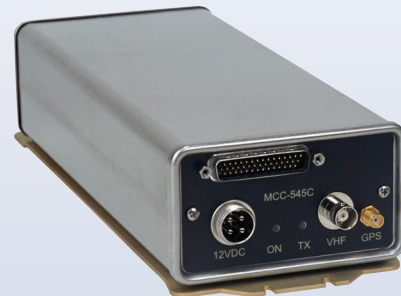
MICROPROCESSOR

Processor.....Motorola MC68332FC 32-bit
 Embedded Controller
 Memory
 Program Storage.....512K x 16 non-volatile flash memory
 Data Storage.....1024K x 8 Static Ram (optional (2084K x 8)
 Parameter Storage.....512K x 16 non-volatile flash memory
 Automated, unattended
 data telemetry system
 Three (3) programmable RS-232
 data ports for interfacing to:.....dataloggers
 Field test equipment
 Palmtops
 Laptops
 Auxiliary sensor interfaces:.....6 analog inputs, 10 Bit Resolution
 4 optically isolated inputs
 2 relay outputs



TRANSMITTER

Frequency.....36-50 MHz 0.0005%
 Synthesized 10 KHz steps
 RF power output.....100W nominal @ 12 VDC Input
 Load VSWR.....<2:1 for rated power
 Harmonic levels.....>63 dB below unmodulated carrier
 Modulation
 type.....GMSK
 rate.....9.6 Kbps / 19.2 Kbps
 Spurious.....>63 dB (Tx On) below unmodulated carrier
 >57 dBm (Standby) below unmodulated carrier
 Transmit bandwidth.....25 KHz channel spacing
 ACP >70 dB below unmodulated carrier
 Tx duty cycle.....16% maximum without shutting down
 T/R switch.....Solid-State Switch Time <100 nsec
 Protection
 High VSWR.....Withstands infinite VSWR



Specifications are subject to change without notice.

Meteor Communications Corporation (MCC) has been providing its clients with network services, turnkey networks, robust communication protocols, adaptive network software and very reliable hardware since 1975.

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