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Specification Sheet MicroMet MBTU10X

MicroMet MBTU10X is a meteor burst radio data modem designed to transport data messages from remote, unattended data and weather stations. MicroMet utilizes meteor burst communication technology to communicate data packets across ranges from zero to over one thousand miles without satellites, repeaters or telephone wire. MicroMet is the only data modem designed specifically to operate with the Alaska Meteor Burst Communication System (AMBCS). Direct, single hop communication between the AMBCS master station and a MicroMet data modem will perform reliably from virtually anywhere in the state of Alaska. MicroMet will transport data gathered by any serial port capable data collector such as Campbell Scientific's CR10X. Through the data collector, virtually any sensor or combination of sensors may be controlled, interrogated, and reported through AMBCS.

Specifications

CPU: Fully Static low power CMOS
Data Rate: AMBCS – 2KBPS, Other – 4KBPS, 8KBPS
Data Protocol: AMBCS
Transmit Power: 100 watts (100S) or 300 watts (300S)
Transmit Duty Cycle: Less than 0.001% typical
Transmit Pulse Duration: 20ms typical
Modulation: BPSK
Primary Data Interface: RS232C, 1200 BPS
Primary User Interface: RS232C, 9600 BPS

Power Requirement: 10 -18Vdc @ 30ma continuous, 20a during transmit pulse

Contact Micro Specialties for more information about meteor burst communication and the Alaska Meteor Burst Communication System. Contact Campbell Scientific for information and specifications for the CR10X data collector.