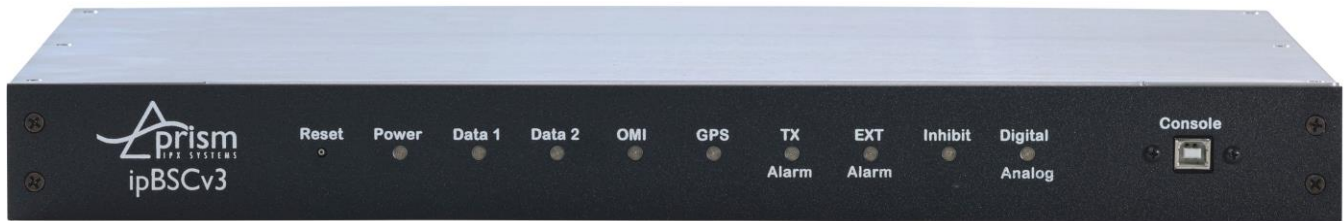# ipBSCv3 Base Station Controller

The Prism-IPX ipBSC Model Version 3 is a network base station controller designed for use with the Prism-IPX PriMega series of text message handling systems for message transmission over single transmitter or multiple transmitter radio simulcast networks used primarily for paging technology. Data for broadcast sent using Ethernet connectivity from the Prism-IPX PriMega is received by the ipBSC and retimed for transmission using GPS technology or Prism computer server time synchronized to a highly stable time standard.
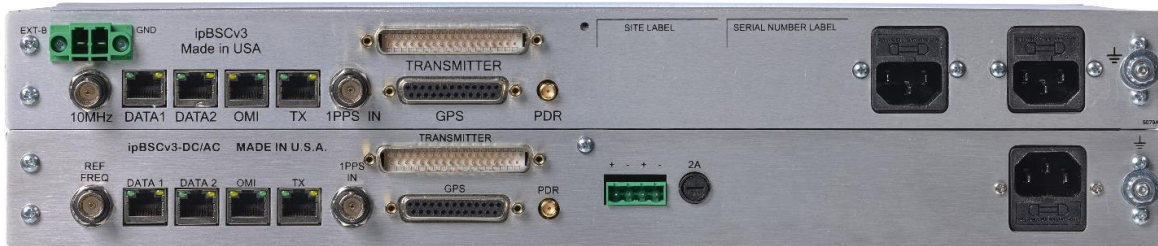
- ✓ Designed for Simulcast as well as single transmitter installations
- ✓ GPS-corrected, 10 part-per-billion 10 MHz reference signal output
- ✓ GPS time corrected oscillator with long holdover during loss of GPS signal
- ✓ Support for Trimble Acutime GG, 360 and 720 GPS units
- ✓ Transmitter interfaces: TTL (0/+5v and 0/+12v); analog tone control + PURC
- ✓ Front panel LED status indicators
- ✓ Front panel USB console port for diagnostic display and configuration
- ✓ Remote console port view over IP network connection

- ✓ Voltage input: 120/240 VAC 50/60Hz supply; optional -48 Vdc, redundant supplies
- ✓ External alarm inputs sensing voltage changes and contact closures
- ✓ Digital: FLEX 1600/3200/6400 (2/4 level data), POCSAG 512/1200/2400, Golay
- ✓ Analog Paging Formats: 2 tone/voice, 5tone/voice
- ✓ Demand Response / Load Management Formats: SA206, SA305, POCSAG, FLEX
- ✓ Optional special DR SA105 Format with OTA receiver decoder
- ✓ Low latency for fast transmit times. (network dependent)
- ✓ Dual Paging Data Network Connections for redundant diverse network routing
- ✓ Manages IP enabled transmitters for configuration, monitoring and control
- ✓ Operations Maintenance Interface (OMI) for remote monitoring/managing system
- ✓ Optional built-in OTA paging decoder logs page, sends to remote archive
- ✓ DB37 for smart digital/analog TX interface + alarm monitoring

Choice of power supply options: single, dual, AC, DC, AC/DC

Physical

- Size: 19" 1RU Rack-mount Enclosure, 16" deep
- Weight: approximately 5 pounds - depends on options selected
- Power Input Options: AC: 110/240 VAC; DC: 24VDC or 48 VDC
- Optional mix of dual supplies
- Current requirements: 2 Amps.
- Operating Temp: 0 to +60C
- Storage Temp: -40 to +90C
- Humidity: 10% to 90%, non-condensing
- CPUs: Atmel ATSAMD21J18A-AUT; ATSAMG55J19B-AUT, Atmel 1Gbyte RAM
- CPU: Quad NXP i.MX6 Arm® Cortex®-A9, 2 GB DDR3 RAM