

# DXP6000 Series

## 1-PPS GPS & 10 MHz EXTERNAL REFERENCE OPTIONS

The DX Radio Systems DXP6000 series simulcast paging transmitters are available with two external reference options; both are contained within an internal circuit board that replaces the customary 0.02ppm high stability oscillator board.

Unlike most competitor's products DX Radio Systems' GPS and external reference boards feature a disciplined version of its ultra high stability 30 MHz oscillator, which means that should the GPS or (if so supplied) 10 MHz reference signal fail, the unit would continue to operate, driven by a highly stable 0.02ppm or better reference.

### 10 MHz EXTERNAL REFERENCE (UNITS ORDERED FOR 10 MHz REFERENCE)

Some site references (GPS disciplined or internal oscillator controlled) provide a highly stable 10 MHz reference signal. This signal is fed to the DXP6000 series transmitter controller via a 50 Ohm BNC coaxial connector. The 10 MHz signal disciplines the 6000 series' 30 MHz oscillator causing the 6000's output frequency to be locked to the 10 MHz reference.

### 1-PPS EXTERNAL REFERENCE (UNITS ORDERED FOR 1-PPS REFERENCE)

The DX Radio Systems 1-PPS reference oscillator is directly compatible with most satellite derived 1-PPS sources. Wired for this application, the DXP6000's transmitter controller features two DB-15 connectors (one male and one female) to allow for "daisy-chaining" of the 1-PPS RS-422 reference in/output. These in/outputs are un-terminated. In many cases, the DXP6000 is connected to Zetron's model 620 satellite timed paging controller. If the DXP6000 is the last unit in the chain, a termination plug must be installed, if it is in the middle of the chain, the last unit in the chain should be fitted with the termination plug. This termination plug is normally supplied by and fitted to the Zetron model 620, if the unit is not used with a 620, this plug may be ordered from DX Radio Systems, Inc.

The 1-PPS signal is processed by the DXP6000 series transmitter controller where it disciplines the 6000 series' 30 MHz oscillator causing the 6000's output frequency to be locked to the 1-PPS satellite derived reference.



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