

**Bid Specifications  
for  
Telex SoundMate Multi-Channel  
Base Station FM Transmitter ST-300**

**1. General Description**

The St-300 FM Transmitter is designed to provide auditory assistance in both personal and group situations. It operates on the 17 narrow-band channels in the 72-76 MHz band. The base FM transmitter is rack mountable and accepts balanced and unbalanced audio inputs. It runs from a wall plug 12 VAC transformer and includes a detachable telescoping ¼ wave antenna.

**2. System Components**

1. The FM Transmitter must transmit 17 FCC-approved narrow band frequencies (in the 72-76 MHz radio band) available for the transmitter. The transmitter must identify numerically with a back lit LCD indicator the designated radio channel being transmitted.
2. The FM Transmitter must accept unbalanced line level, balanced microphone level and 70 Volt distributed audio sources.
3. The transmitter must have Enhanced Dynamic Range (E.D.R.) feature to improve Signal to Noise and audio quality when used with the SR-400 in E.D.R. mode.
4. Must have Normal and High RF transmitter settings.
5. The FM Transmitter must have an on/off power switch.
6. The FM Transmitter LCD is backlit to indicate “on” status.
7. The FM Transmitter must be mountable in a 19 inch equipment rack.
8. The FM Transmitter must have a three year parts and labor warranty.

**3. Specifications**

Audio Input Characteristics ----- XLR-3F Balanced, ¼ inch unbalanced.  
Antenna ----- detachable ¼ wave telescoping  
Modulation ----- FM, +/- 25 KHz deviation  
Frequency Response (System) ----- 100 Hz to 10,000 Hz  
Automatic Gain Control Range ----- 30 dB  
System Signal to Noise ----- 58 dB, > 77 dB with E.D.R.  
Preemphasis ----- 100 micro seconds  
Maximum Power ----- 80K micro Volt/m @ 3 m (25K micro V/m in Normal)  
Power Requirements ----- 13-20 Vdc or 12 Vac; 115Vac 60 Hz @ 300 mA plug-in  
wallpack power supply  
Size ----- H 1-3/4” (4.5 cm) x W 7-1/2” (19.2 cm) x D 5.9” (15 cm)  
FCC ID ----- B5DM522