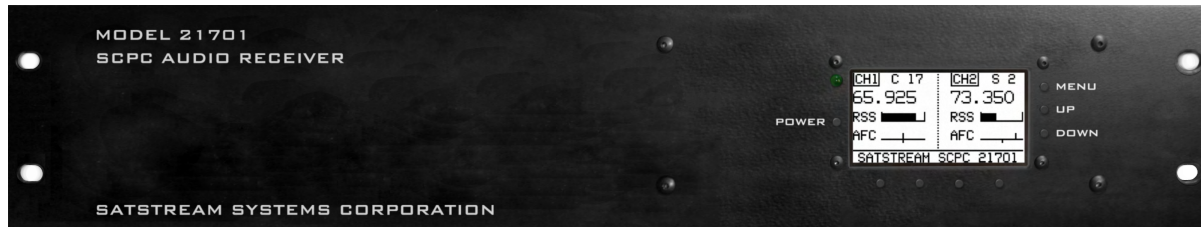




# SATSTREAM

## 21701 AGILE FM SCPC SATELLITE RECEIVER



### FEATURES

- Front panel LCD Screen and Keypad for convenient receiver configuration.
- Configuration via local serial port
- Two independent FM demodulators
- Alarm output signals for faults (optional)
- IF Frequency tunable in step sizes down 1 KHz
- PLL Stability better than  $\pm 5$  KHz

### DESCRIPTION

The SatStream 21701 has been designed for reception of any two FM carriers simultaneously within the 500 MHz Satellite Band using two independently tunable demodulators. The receiver accepts an L-Band input from an outdoor mounted LNB and produces two high quality Monaural outputs. The LNB drift is automatically compensated through a digital AFC algorithm.

The audio output is available on XLR connectors (600 Ohm Balanced) and can be adjusted to at least +9 dBm. The receiver is available in both Desk Top or Rack mounted versions. The receiver includes a universal switch mode AC power supply. A front panel LCD Screen and Keypad is provided for convenient configuration of the Receiver. The unit includes the CCITT Companding scheme for best Audio performance.

### APPLICATIONS

- High quality audio distribution for networks
- Emergency Communication system (Optional)

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## SATSTREAM 21701 SPECIFICATIONS

IF Frequency Range	50.00 – 90.00 MHz
SCPC Version (Option B) [NOTE 1]	950 – 1450 MHz (standard L band)
SCPC Version (Option B1) [NOTE 1]	950 – 1750 MHz (extended L band)
Subcarrier Version (Option F)	100 KHz – 8.995 MHz
Subcarrier L Band tuner (Opt L)	950 – 1450 MHz
I.F. Frequency Tuning Steps	1, 5, 10, 25, 50 KHz
PLL stability	Better than $\pm 5$ KHz
Input impedance	75 ohm
C/No Threshold	64 db-Hz
Transponder Tune (C Band):	Selectable 1 to 24
Transponder Tune (S Band):	Selectable S1 – S2
Demodulation	Two independent FM demodulators
De Emphasis	75 micro sec.
Audio Expanding	1:2
Number of channels	Two independent monaural channels
Audio Output(Analog)	Balanced 600 ohm, (Two mono ), level adjustable, maximum level $>+18$ dBm
Audio output at +/-75 KHz deviation	+ 9 dBm (adjustable)
Audio frequency response	+/-1 dB (ref.1 KHz at -20 dBm)
THD	<1% at +9 dBm
SNR	Greater than 65 dB
Output voltage to LNB	18 volts DC, up to 500 milliamperes
Power requirements	90-260 VAC 48-63 Hz less than 30 VA
Dimensions	Standard rack mount: 2RU 19" Rack 19" wide x 3.5" high by 10.5" deep (48.26x8.89x26.7 cm) Option T: Desktop Version 10.5" wide x 2.85" high x 7.3" deep (26.7x7.24x18.5 cm)

NOTE 1: In the USA: FCC approval limits low end range to 960 MHz

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