

**STE Series
Broadband**

**High Power
MMDS Transmitters**



LSI 38STE

- ❖ Multi-Channel Operation
without RF Channel Combiners
- ❖ Class-A Ultralinear Power Amplification
- ❖ Enhanced Linearity
RF Amplifier Linearization (Standard)
HRC Phaselocked Headends (Option)
- ❖ Low CTB Distortion
Broadcast Quality Performance
- ❖ Ease of Maintenance
- ❖ High Reliability

The Loma Scientific International STE series of transmitters provide broadband MMDS operators with a technically proven solution for cost sensitive wireless cable broadcast television applications. Enhanced amplifier linearity circuits provide overall improvements in CTB performance and picture quality. This coupled with flexibility of choice for different modulation formats and arbitrary channel loading assignments make these transmitters simple to operate and maintain. The multi-channel up-conversion architecture can be factory preset to meet any requirement, and field replacement or addition of modulators can be accomplished easily with little or no down-time.

STE Series Broadband Transmitter Specifications

Operating Frequency	2500~2686 MHz (2.0~2.7 GHz available)
Maximum Number of Channels	(33) 6 MHz FCC (NTSC) or CCIR (PAL-N) channels (25) 8 MHz CCIR G, I and K (PAL/SECAM) channels
Composite Triple Beat (CTB)	-50 dBc maximum with unmodulated carriers -55 dBc typical with modulated carriers
Signal to Noise Ratio	55 dB
IF Input Level	-6 to -26 dBm (222~408 MHz) Note 1
Conversion Gain Flatness	+/- 2dB (186 MHz bandwidth)
Input Impedance	75 Ohm - BNC or "F" connector
Output Impedance	50 Ohm - N connector
Ambient Operating Temperature	+10 to +40 degrees centigrade
Relative Humidity	95% maximum, non-condensing
Power Requirements	120/220 VAC, 50/60Hz

LSI Model Number	IP3 Third Order Intercept	P1dB Equivalent Final *	Power/ Channel @8channels	Power/ Channel @16channels	Power/ Channel @20channels	Note 2
58D STE	12KW	800W	36dBm	33dBm	32dBm	Note 3
58 STE	6.3KW	400W	33dBm	30dBm	29dBm	
38 STE	3.2KW	200W	30dBm	27dBm	26dBm	
28A STE	2.0KW	100W	27dBm	24dBm	23dBm	
18A STE	1.0KW	50W	24dBm	21dBm	20dBm	

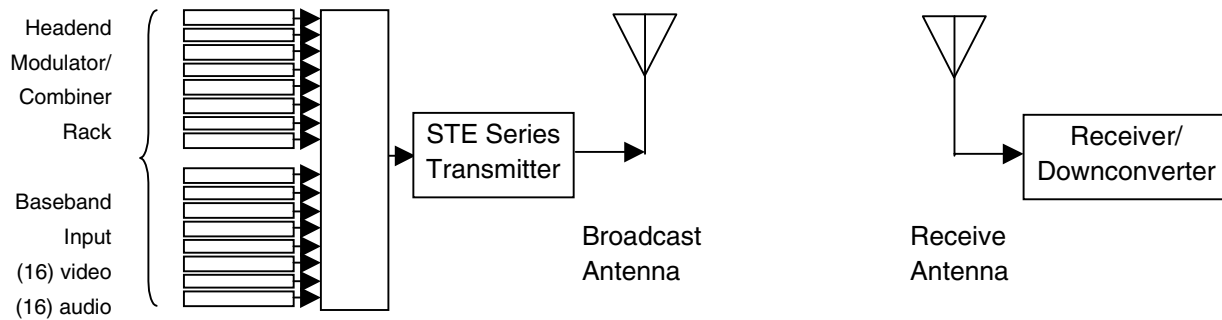
* (16) channel Class-A comparison test



General and Mechanical Specifications

LSI Model Number	AC Power Consumption (typical)	Dimensions W" x H" x D"	Weight [lbs.]
58 STE	480VA	19 x 7.00 x 24	35
38 STE	260VA	19 x 5.25 x 8.5	17
28A STE	120VA	19 x 5.25 x 8.5	15
18A STE	75VA	19 x 5.25 x 8.5	15

Example (16) Channel System Configuration



Specifications are subject to change.

Notes

1. For Customer supplied headends, contact sales for proper IF (input) drive levels.
2. Contact sales for other channel loadings or other modulation (including digital) formats.
3. 58D = Dual 58STE Option. Contact Sales for information regarding (2) transmitters and (2) antennas.
4. For any features not listed here please contact LSI Sales.

Loma Scientific International (LSI) is the world leader in MMDS transmitter sales with Wireless Cable Systems deployed in more cities and countries than by any other firm. LSI products enable Pay TV and "free to air" television programming to be delivered in any market, FCC or CCIR, faster and easier and at very low cost compared to traditional CATV (hardwired) systems installations. MMDS services can also provide alternative video, voice and data solutions that may already be served by cable.

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