



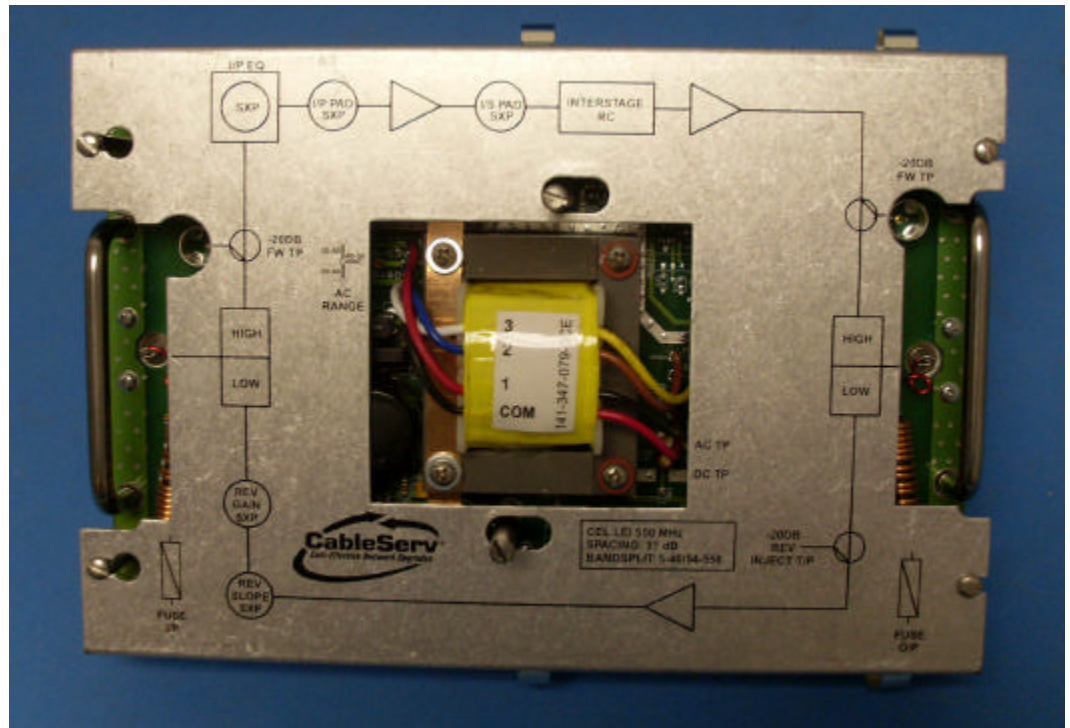
# Scientific Atlanta® Drop-in LE I Extended Bandwidth Line Extender Module

## Product Description

The CableServ LE I is a High Performance, High Output Drop-in replacement for an existing Scientific Atlanta® LE I amplifier.

## Applications

This module is intended to allow systems to increase bandwidth while maintaining existing housings and locations.



## Product Features

The CableServ LE I is designed to drop in to existing 330 to 550MHz networks and allow bandwidth upgrades up to 750MHz without housing replacement or plant alterations. The use of GaAs technology allows for significantly elevated operating levels.

Employing the CableServ patented Padded EQ technology, no Equalizers are required for either Forward or Return setup. The amplifier incorporates a 5-42MHz Active Return and a Return setup Inject Point.

Launch tilt is built in and no Interstage Equalization is required: only SXP Pads and Auto Fuses are required for setup.

Available in Manual and AGC versions: Analog or QAM pilot.

When deployed in conjunction with the CableServ SATT Trunk Bridger Series, most legacy Scientific Atlanta® plants can be drop-in bandwidth upgraded without alteration.

<b>PRODUCT MODEL CEL SA LEI 550</b>				
<b>PARAMETER</b>	<b>Notes</b>	<b>Units</b>	<b>Forward</b>	<b>Reverse</b>
<b>TECHNOLOGY</b>			<b>PD GAAS</b>	<b>HYBRID</b>
<b>PASSBAND</b>		MHz	54-550	5-42
<b>TYPICAL OPERATING CONDITIONS</b>				
Operation Gain Manual		dB	39	20
Operation Gain AGC		dB	37	20
Channel Loading (Analog-Digital)			30-48	6
<b>OPERATING LEVELS, (Reference)</b>				
Frequency (55/250/550)		MHz	55/250/550	5/42
Output		dBmV	42/48/54	37/37
<b>PERFORMANCE CHARACTERISTICS</b>				
Noise Figure, Without EQ (55/550)		dB	10/10	8
CTB		dB	74	75
CSO		dB	75	76
Full Gain, Minimum		dB	40	21
<b>TEST/INJECT POINTS</b>		dB	20 +/- 1.0	
<b>POWERING REQUIREMENTS</b>				
AC Voltage, 60 Hz		VAC	35-60	
AC Current, @ 60VAC (True RMS)		mA	620	
AC Current, @ 50VAC (True RMS)		mA	740	
AC Current, @ 45VAC (True RMS)		mA	950	
AC Bypass Current		A	10	
<b>Operating Temperature</b>		° C	-40 - +60	

CEL SA LEI 550MHz MANUAL GAIN	824-310-560-OCE
CEL SA LEI 550MHz AGC 445.25 QAM	824-310-561-OCE
OTHER BANDWIDTHS AND AGC FREQUENCIES AVAILABLE	



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