

# ComLink™ CS-540TL

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## 40-Watt Repeater and LTR® Controller Combined



### All the features of a complete LTR® Trunking Logic Controller

- Built-in ID validator
- Air-time logging
- Front panel menu for ease in set-up of Repeater Number, Area Bit, Sync, and TX voice and data levels
- LTR decoder: View home repeater and ID of call being repeated

### All the features of a complete FM Repeater System

- 40-watt RF transmitter
- Excellent receive sensitivity of 0.25 $\mu$ V
- 12.5 kHz/25 kHz channel spacing
- Dual-Cooling fans

### Additional features

- 10-Amp power supply with battery backup/charging circuit
- Windows® based programming and monitoring software
- Optional 2400 baud socket-modem for dial-up access (socket-modem fits inside chassis)
- 2U 19-inch rack mountable chassis

**BridgeCom**  
SYSTEMS

## Additional Features:

- Each repeater/controller has its own approved repeater list allowing for staged system/fleet upgrades
- CWID: Separate call sign per channel
- Front speaker for monitoring the channel activity
- Test mode for setting TX voice and data levels
- Supports CTCSS/DCS for conventional operation
- Remote Programming/Maintenance via DTMF

# BridgeCom SYSTEMS

BridgeCom Systems, Inc.  
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General	CS-540U-TL	CS-540V-TL
Operating Voltage:	11 V DC Min / 13.8 V DC Nominal / 15 V DC Max	
Channel Spacing:	5kHz/6.25kHz/Splinter	
Current Drain:	10A Max	
Duty Cycle w/o Duplexer:	Transmit: 100 % duty @ 33W output	
Weight:	18.5 lbs.	
Weight w/ Duplexer:	Approx 19.5 lbs.	
Frequency Range:	450-480 MHz	148-174 MHz
Dimensions (W x H x D):	19.0" x 3.5" x 14.0"	
Frequency Stability:	+/- 1.0 ppm	+/- 2.5 ppm
Operating Temperature Range:	-22° F to +140° F (-30° C to +60° C)	
<b>Receiver</b>		
Local Oscillator:	Low-side injection	High-side injection
Sensitivity (12 dB SINAD):	< 0.25 $\mu$ V @ 12.5 kHz < 0.25 $\mu$ V @ 25.0 kHz	
Squelch Threshold:	Open 12dB SINAD/ Close 8dB SINAD	
Selectivity:	62dB @ 12.5kHz 72dB @ 25.0kHz	
Spurious Rejection:	75dB	
Intermodulation Rejection:	72dB @ 12.5kHz	72dB @ 25.0kHz
Antenna Connector:	N-Type	
Antenna Impedance:	50 $\Omega$	
<b>Transmitter</b>		
RF Output (w/o duplexer):	450-470 @ 0-40W 471-480 @ 0-35W	148-174 @ 0-40W
Modulation:	16K0F3E, 11K0F3E	
Maximum Deviation:	+/- 5kHz (25 kHz) +/- 2.5 kHz (12.5 kHz)	
FM Hum and Noise:	36dB @ 12.5kHz 42dB @ 25.0kHz	
Antenna Connector:	N-Type	
Antenna Impedance:	50 $\Omega$	

Specifications per EIA Standards. In our on-going commitment to quality specifications are subject to change without notice.



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