

BridgeCom SYSTEMS

Repeaters, Controllers, Multi-Site Networking and Interoperability Solution

for LTR, Conventional, Digital and other formats of Land Mobile Radio

**Product
Catalog**

BridgeCom
SYSTEMS



FM Repeater System

ComLink TL/TL-NET Controller



TL-Net Gateway - TL-Net Server



BridgeCom
SYSTEMS

Company Profile

BridgeCom Systems designs and manufactures a wide range of products for the land mobile radio communications industry. Our products include FM repeaters, LTR and conventional repeater controllers, a complete wide-area communication solution called TL-NET, and a PC-based dispatch console solution. We are dedicated to interoperability and provide easy-to-use, affordable, reliable, and feature-rich communications equipment that exceeds our customer's expectations. We hope you enjoy this catalog as we acquaint you with all we have to offer. In addition, we offer excellent sales and technical support to help you meet your goals.

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ComLink CS-540

FM Communications System



Introducing the ComLink™ CS-540 FM Communications System by BridgeCom Systems, Inc. The CS-540 provides a feature rich repeater/base station platform to meet a variety of applications in the land mobile radio industry. Packed with 40 Watts of RF power, this dual fan-cooled unit can become a community repeater, a 16 channel base station, manage a channel in an LTR® trunking system, and much more.

Applications

Features

On-Site Communications: Provides clear, reliable communications for settings such as golf courses, warehouses, office buildings, factories, colleges, and universities.

Community Repeater: Each channel provides for quick and reliable decodes for up to 64 users with 50 CTCSS and 112 DCS codes available.

Trunking Systems: Excellent choice for interfacing LTR® and Passport® trunking controllers.

External Peripherals: Easily connects to your favorite telephone interconnects, DC remotes, external tone panels, and all sorts of signaling products.

Amateur Repeater: Both the VHF and UHF versions operate in their respective amateur region of the spectrum.

Link-Radio Ready: Connect a "Link-Radio" to the repeater for cross-band applications and interoperability.

GMRS Ready: Add a tuned internal duplexer and everything is set to put a GMRS repeater on the air.

Feature Rich Base Station: 16 full-duplex channels that can support up to 64 users per channel.

Customizable: The CS-540 uses Flash Memory which permits updates. If you have a need that is not mentioned here, let us know and we'll see if we can make your idea a reality!

Built-In 10A Power Supply: No need for purchasing a power supply. It's included!

Battery Backup with Built-in Charging Circuit: Automatically switches to external battery when AC-Line fails. Charging circuit keeps battery fully charged. Battery not supplied.

13.8 Volts Output: Perfect for powering peripherals requiring high current and saving valuable site resources.

Dual Cooling Fans: Programmable operation TX only or continuous operation.

Front Panel Speaker: Ideal for monitoring the channel.

External Speaker Out: Connect an external speaker for 10 Watts output into an 8Ω load. Great for routing received audio to another room.

25-pin Accessory Connector: All the signals are here to connect the CS-540 to just about anything:

- RX Discriminator Out
- External PTT In
- TX Audio In
- Broadband Audio In
- +13.8V Out (1A Max)
- COS Output
- Multipurpose I/O

Keypad Lock: Prevent tampering when repeater is in service at site.

Excellent Receiver Sensitivity of 0.25μV

Channel Spacing: 12.5 kHz/25 kHz

Built-In LTR Decoder: Decodes and displays ID and Home channel of call being repeated.

Transmitter Fine-Tune Alignment from Front Panel:

- Mic Gain
- Sub Audible Deviation
- Overall TX Deviation
- TX Frequency
- TX Power

Over-the-Air Programming and Maintenance via DTMF Tone Sequences: For example, add a new user or deactivate a non-paying customer. Saves costly trips to the site.

Composite Input: Ideal for handling external peripherals that mix sub-audible and voice information.

TX Timeout Timer: Limit TX time to protect against 'stuck mic' situations.

Per User Features:

- Air Time Logging
- Courtesy Tone (0, 500, 1000, 1500)
- TX Hang Timer
- Tone-In-Tail Selectable*

*Makes for quicker decodes

Built-in CWID: Programmable broadcast interval and transmission rate (11 or 22 wpm).

CSQ Repeat: Channel can be set up to repeat all incoming transmissions regardless of signaling.

Feature-Rich Carrier Operated Switch (COS): Dedicate one output pin of the accessory connector to become a COS output. Select the COS to toggle based on either carrier or valid signaling. Polarity of the output pin can be either active high or active low. Also, COS can be dedicated to operate for only one user!

100% LTR® Compatible and Lo-Speed Data Ready: Compatible with your favorite LTR® trunking controller. The CS-540 provides DC-coupling from the receiver to the controller and from the controller all the way to the RF transmitter. No sub-audible signal degradation. Transmitter-data ready in 24 ms after external PTT is engaged.

Windows® Based Programmer: The CS-540 is setup and programmed using the PGM-540 programming software. No expensive programming box or cable required! Uses an off-the-shelf DB9 male-female for the programming cable. (Cable included with programming software package.)

General	CS-540U	CS-540V
Number of Channels:	16	
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:	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)	
Receiver		
Local Oscillator:	Low-side injection	High-side injection
Sensitivity (12dB SINAD):	< 0.25 µV @ 12.5 kHz < 0.25 µV @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:	50Ω	
Transmitter		
RF Output (w/o duplexer):	450-470 @ 0-40W	148-174 @ 0-40W
Programmable	471-480 @ 0-35W	
Modulation:	160K0F3E, 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:	50Ω	

* Commercial frequency range listed, however both VHF and UHF versions operate in their respective amateur region of the spectrum.

Specifications per EIA Standards. In our on-going commitment to quality, specifications are subject to change



ComLink™ CS-540TL/TL-NET

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 μ V
- 12.5 kHz/25 kHz channel spacing
- Dual-Cooling fans

Additional features

- TL-NET capable—Network each channel on your multi-site TL-NET system!
- 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

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

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)	
Receiver		
Local Oscillator:	Low-side injection	High-side injection
Sensitivity (12 dB SINAD):	< 0.25 µV @ 12.5 kHz < 0.25 µV @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:	50Ω	
Transmitter		
RF Output (w/o duplexer): Programmable	450-470 @ 0-40W 471-480 @ 0-35W	148-174 @ 0-40W
Modulation:	160K0F3E, 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:	50Ω	

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



TL/TL-NET LTR[®] / **Conventional Controllers**

The TL and TL-NET LTR and Conventional dispatch controllers are the smallest and simplest LTR controllers on the market. Each controller is the size of a **3 X 5 card** and three can be placed side-by-side in a 1U chassis, saving valuable rack space.

Easily interfaces to any repeater on the market!



KEY FEATURES of Both Models:

- LTR Dispatch. 20 repeaters per system, 250 group IDs per controller.
- Program and test all parameters from the innovative Windows[®]-based Control Manager software. (See back side for details.)
- Air time logging and real-time system monitoring.
- ID validation. If group ID is invalid, handshake will not complete.
- Built-in CWID.
- Valid repeater array – Each controller has its own list of approved controllers. Safely trunk calls to valid repeaters which allows for staged system/fleet upgrades.
- Remote programming/maintenance via DTMF.
- Conventional operation supported.
- TL version firmware upgradable to TL-NET.

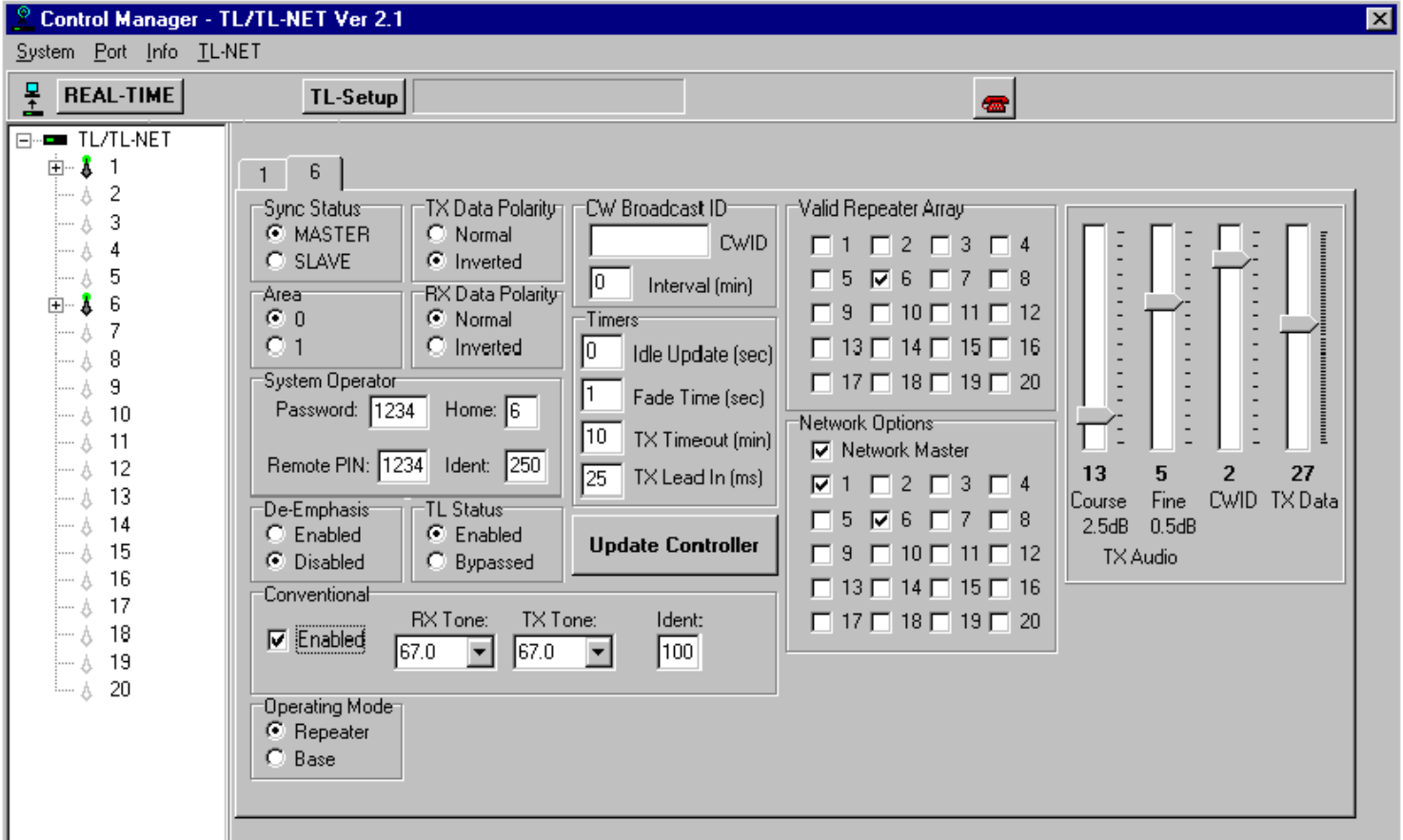
TL-NET LTR Controller Specific:

The TL-NET version allows for interfacing your LTR controllers to the TL-NET wide-area trunking system. The TL-NET system allows multiple repeater sites to be linked together, creating a wide-area trunking network. Visit www.BridgeComSystems.com for further details about TL-NET!

CONTROL MANAGER Software:

Our innovative Windows®-based Control Manager software allows you to setup, program, and test the many LTR and Conventional controller parameters quickly and easily:

- Area Bit, SYNC Status, RX and TX Data Polarity, Repeater Number
- Password, SYSOP Home/IDENT, Remote PIN
- Validation Table Management
- TX Audio, TX Data, and CWID Levels, DeEmphasis
- Idle Message Update Timer, Fade Timer, TX Timeout Time, and TX Data Lead In Delay
- Repeater/Base Mode Operation



SPECIFICATIONS for Both Models:

- Transmit Audio – 0-2.5 V pk-pk
- Receive Audio – 0-5 Volts
- Transmit Data – 0-2.5 V pk-pk
- PTT Output – Open Drain Pull to Ground
- COR Input 5V Active Low
- Repeater and Control Bus – RJ45
- TL-NET Audio Bus – RJ45

TL-Net™

Wide Area Two-Way Radio Networking For Conventional and LTR Trunking Systems

Connect multiple repeater sites to create a seamless wide area LTR® trunking network.

Expand



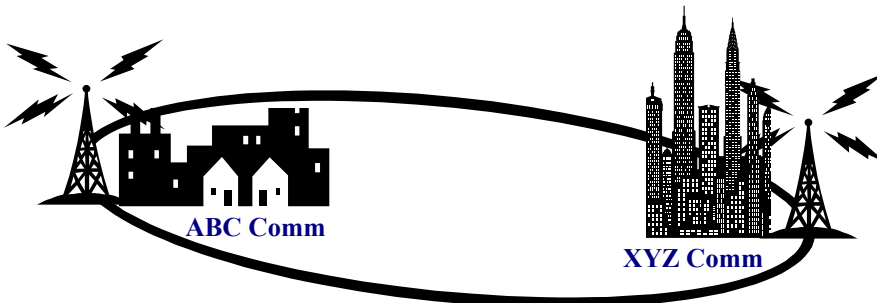
Your



Reach...



Server to Server Example:



Even Further!

Expand your customer base! Not only can you connect multiple repeater sites to create a wide-area LTR trunking network, our new Server to Server technology allows multiple airtime service providers to link their networks. **We provide the easiest to use and easiest to install system available anywhere.**

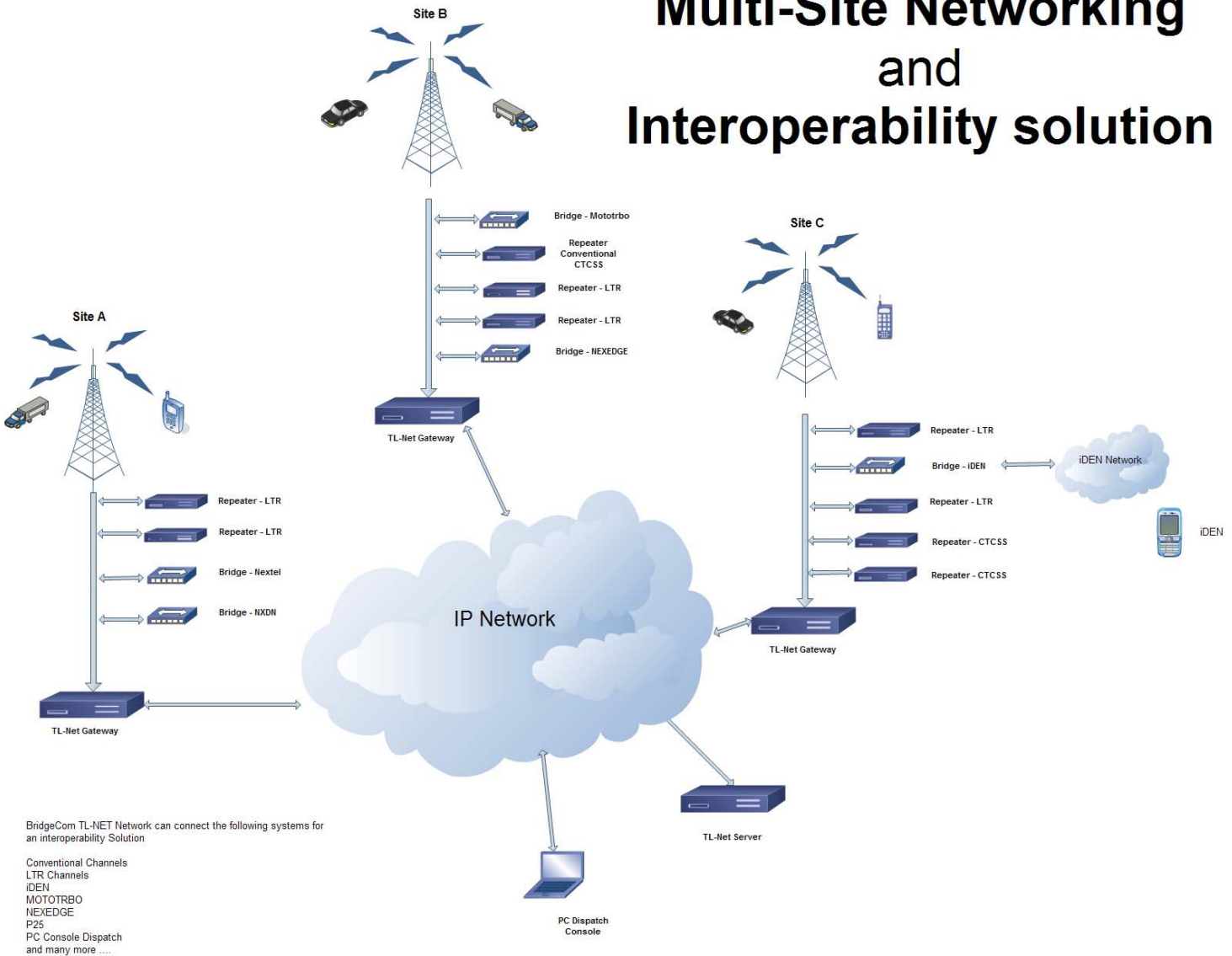
Key Features:

- Transmission trunking between sites. Remote sites are brought up as fast as handshaking with your local site.
- Excellent audio quality.
- Site specific calling.
- Push to register--use sites only when needed.
- No radio upgrades required.
- Easy to install.
- Up to 20 repeater channels per site on just one IP address.
- Pass MDC 1200 and Fleetsync data between sites.
- Manage your entire system from any computer connected to the internet.
- Lowest cost per wide-area channel in the industry.
- Connect systems together with server to server technology.

After looking at all of the choices for our wide-area system we chose Bridgecom's TL-Net. After our build-out of the Chicago metropolitan area is complete, we plan to expand the system into Wisconsin and Indiana. Bridgecom backs up their awesome product with excellent support.

Frank Anderson, CEO
A Beep, LLC.
Joliet, IL

Multi-Site Networking and Interoperability solution



How Does It Work?

TL-NET combines all the features of single-site LTR with our VoIP backbone to provide a multi-site LTR trunking solution. All the benefits of single-site LTR are maintained except now it's multi-site.

All dispatch calls are made using transmission trunking. Setup between sites is extremely fast! In fact, just as fast as handshaking with the local site. Your customers will notice no difference other than their range is extended.

How Do I Use It?

Our system works with standard LTR® capable radios from Icom, Kenwood, Motorola, and many others. Use your existing equipment! No special option boards to install, firmware upgrades or special radio programming required.

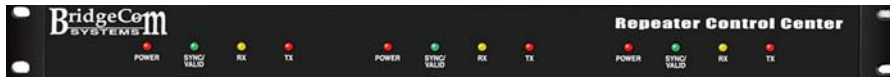
Each site's Gateway supports a web server that allows you to control and monitor your system from a PC with an internet connection. From a web browser you can validate/invalidate talk groups, adjust TX voice and data levels, enable/disable network access and much more.

What Equipment is Required?

- Each site requires a high-speed internet connection which can be a T1, cable modem, DSL, or microwave.
- Each repeater site consists of one TL-NET Gateway and an array of TL-NET LTR Controllers connected to repeaters. The Gateway connects your system to the internet and manages the audio traffic to and from the repeaters.
- One TL-NET Server is required to oversee the entire network. The Server can be located anywhere.
- One TL-NET LTR controller is required per repeater. To meet this need we offer two choices: You can go with our CS-540TL-Net Repeater/Controller package, which combines our RF equipment with the TL-NET LTR controller, or you can purchase the TL-NET controller by itself to connect to your own RF equipment.

Networking System Components

The ComLink TL/TL-NET controller is the device used to interface a radio or repeater to a site gateway.



ComLink TL/TL-NET Controller

TL-Net Gateway is a device that connects up to 20 TL-Net controllers at a site to the Internet. The TL-Net Gateway is the interface between these controllers and the IP network



TL-Net Gateway

TL-Net PC Client program. This program is an application that runs on a Windows based PC. It allows the user to use a PC as a Mobile Radio. Once installed on a PC desktop or laptop, the PC can function as a radio on the network. PC speakers and microphone are required.



TL-Net PC Client

The TL-Net Server is a device that your Sys-op uses to manage your network. The Server ties all the gateways together into one central point for management. The server can be connected anywhere on your IP Ethernet network



TL-Net Server

Web Management



Site: Server BridgeCom

Version 3.2.7
17:11:52 November 04, 2008

[System](#) [Status](#)

[Server](#) [Status](#) [Restart](#) [End now](#)

[Status of active user maps](#)

[Manage user mappings](#)

[Upgrade Status](#)

[View Database](#)

3 connections 0 current start calls 0 current call dest 0 local calls 0 call initiated 0 call not completed [Zero figures](#)
[All connections](#) [Initiators network calls](#) [Recipients network calls](#) [Network calls](#) [Local calls](#) [Active calls](#)



Site: Gateway #1 BridgeCom

Version 3.2.7
18:30:47 November 04, 2008

[System](#) [Status](#)

[Common channel options](#)

[Channel 1](#) [Status](#) [Restart](#) [End now](#)
[Channel 2](#) [Status](#) [Restart](#) [End now](#)
[Channel 3](#) [Status](#) [Restart](#) [End now](#)
[Channel 4](#) [Status](#) [Restart](#) [End now](#)

[Gateway Status Summary](#) [1](#) [2](#) [3](#) [4](#)

[Rx232](#) [Status](#) [Restart](#) [End now](#)

[Control the repeaters](#)

[Test @ Ch-1 @ 10 @ Sears tower @ Network call](#)
 --->[PC-Audio @ 1 @ Bobs-PC2](#)
 --->[Repeater 6 @ 6 @ Gateway #1 BridgeCom](#)

[All connections](#) [Initiators network calls](#) [Recipients network calls](#) [Network calls](#) [Local calls](#) [Active calls](#)

[Home page](#)



Site: RavenNet Server

Version 3.1.0
19:34:09 November 04, 2008

Bandwidth measurement with Demo-1

19:33:55 November 4 2008

Bandwidth: 0.662 Mbps
 This link is capable of carrying (at best) 22 simultaneous calls.

Latency: 76 milliseconds (excellent)
 Audio packets take approx. 76 ms to travel from "Demo-1" to this server to "Demo-1".
 The latency is rated excellent.

Drop rate - 0.0% (excellent)
 When conveying the packet stream for one audio conversation, 0.0% of the packets were dropped in the network.
 The drop rate is rated excellent.

Additional technical info
 Audio data throughput 0.543 Mbps
 Test size Rx 685 of 685
 Drop data Rx 63 of 63
 Round trip time (min/avg/max) 69.5 / 82.5 / 259.7 ms



Site: Server BridgeCom

Version 3.1.0
12:06:48 December 30, 2007

Manage available user mappings

Select user name & direction

Label	User Name	Site Name	Home Repeater Number	User Id	Network Access	Push to register	Registration status	Link Type
Current user map	<input type="text" value="Test"/>	<input type="text" value="Bobs-PC2"/>	<input type="text" value="1"/>	<input type="text" value="250"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="RIPc"/>

Available operations

Current talk map

Test	Bobs-PC2	1	250	network access	always registered	<input checked="" type="checkbox"/>	RIPc
Test	Gateway #1 BridgeCom	6	250	network access	always registered	<input checked="" type="checkbox"/>	Gateway
Test	RavenNet Server	1	1	network access	always registered	<input checked="" type="checkbox"/>	Server inbound
Test	Sears tower	6	123	network access	always registered	<input checked="" type="checkbox"/>	Gateway



Site: Sears tower

Version 3.1.0
18:55:43 December 30, 2007

Display of valid repeater array.
 Users homed on this repeater (10) will have access to these repeaters.
 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

Black = Inactive Blue = valid Repeater

Repeater #10 Validation Table
 001 002 003 004 005 006 007 008 009 010 011 012 013 014 015 016 017 018 019 020 021 022 023 024 025
 026 027 028 029 030 031 032 033 034 035 036 037 038 039 040 041 042 043 044 045 046 047 048 049 050
 051 052 053 054 055 056 057 058 059 060 061 062 063 064 065 066 067 068 069 070 071 072 073 074 075
 076 077 078 079 080 081 082 083 084 085 086 087 088 089 090 091 092 093 094 095 096 097 098 099 100
 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125
 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150
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 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225
 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250

[Mass Ident/Validate/Invalidate](#)

Black = Invalid Blue = Valid Click for user detail

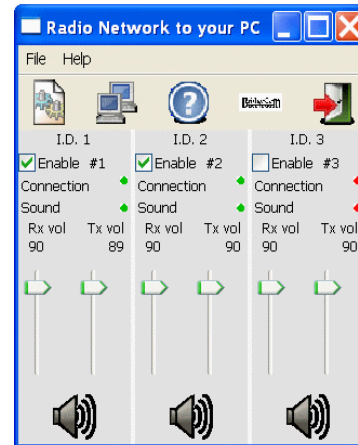
[Home page](#)

TL-NET PC - Dispatch

TL-NET PC Client Dispatch easily turns any Windows® based PC into a 20-channel dispatch base station. Your PC can now communicate to your entire TL-Net System allowing you to make calls to LTR, Conventional, and Digital Radio users, as well as other PC-based users. In addition, you can monitor up to 20 channels or talk groups!



Main Screen with 20 active channels



Main Screen with 3 active channels



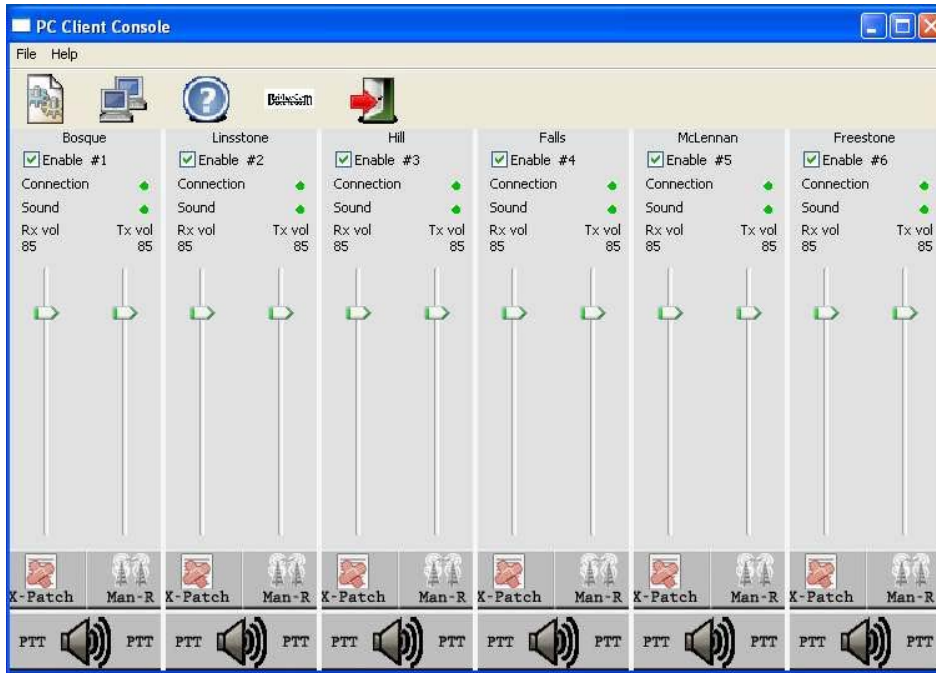
Setup Screen

KEY FEATURES:

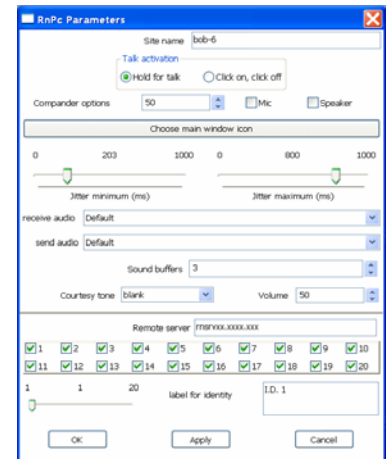
- Connect to your TL-Net System anywhere in the world using the Internet or LAN.
- **Monitor up to 20 channels or talk groups.**
- Individual Mute, Mic and Speaker level controls for each channel.
- **Courtesy tone style and level can be adjusted for each channel**
- Microphone assignment and speaker assignment are configurable for each channel. Microphone and speaker can be common to all channels, separate or grouped for each channel. Completely configurable for any combination.
- **PTT displays RED when Microphone is active, displays GREEN when receiving audio.**
- Main window configurable to display only the channels you are using.
- **USB audio devices are supported as well as built in audio devices.**
- Individually name each channel for easy recognition.
- **No copy protection on the software. You can install the software on many PCs.**
- Very easy to setup. We do not use multicast or complicated mac addressing schemes.
- **No firewall ports or adjustments are required.**
- Very little Bandwidth required, adjustable from 6k bits (only when PTT is pressed)
- **Only one IP network address required.**

TL-NET PC - Console

TL-NET PC Client Dispatch Console easily turns any Windows® based PC into a 20-channel dispatch console. Your PC can now communicate to your entire TL-Net System allowing you to make calls to LTR, Conventional, and Digital Radio users, as well as other PC-based users. In addition, you can monitor and cross patch up to 20 channels or talk groups!



Main Screen with 6 active channels



Setup Screen

KEY FEATURES:

- Connect to your TL-Net System anywhere in the world using the Internet or LAN.
- Monitor up to 20 channels or talk groups.
-
- **TL-Net PC Console has all the features of the TL-Net PC Dispatch product plus several additional features.**
 - The console operator can Cross Patch any or all talk groups on the system
 - The console operator can activate or Manually register any transceivers or sites that have been designated as hot stand-by.

ComLink CA-1 iDEN Communications Bridge



Introducing the ComLink™ CA-1 iDEN® Bridge by BridgeCom Systems, Inc. The CA-1 is an innovative product that provides a communications bridge between any popular iDEN network and the TL-NET network. Each CA-1 allows one iDEN private call number to communicate via Push To Talk with a TL-NET talk group consisting of LTR and/or conventional users.

How Does it Work?

The CA-1 iDEN Bridge allows an iDEN subscriber to communicate with and be party to a two-way radio talk group. The CA-1 connects your TL-NET Network to any popular iDEN network such as Sprint/Nextel or SouthernLinc. Simply add your CA-1 to an existing site where the iDEN network is available. Each CA-1 will have its own iDEN private call number. The iDEN user will call the CA-1's call number to connect to the two-way radio talk group. System Access is quick and the audio quality is excellent.

What Equipment is Required?

The TL-NET network is required to use the CA-1. The TL-NET system is comprised of a server to oversee the entire network. Each site has an array of repeaters, and a Gateway to connect your system to the internet and manage the audio to and from the repeaters. Each site must have a high-speed Ethernet connection. One controller is required per repeater. The CA-1 is added to the system just like a controller. TL-NET can be managed from any computer connected to the internet.

Return on Investment for your Customers

Provide an alternative to cell phones for your customers. They can put iDEN phones only in the hands of necessary users. Other users can be converted back to your private SMR airtime business, saving your customer the high cost of cell phone bills.

Return on Investment for you

By returning customers back to your private SMR airtime business, you increase your monthly subscriber units.

iDEN is a registered trademark of Motorola

MOTOTRBO® Bridge



Introducing the ComLink™ MOTOTRBO® Bridge by BridgeCom Systems, Inc. The MOTOTRBO Bridge provides a communications bridge between a MOTOTRBO digital talk group and the TL-NET talk group on the TL-NET network. TL-NET talk groups can consist of other MOTOTRBO Bridge users, NEXEDGE Bridge users, LTR, Conventional, iDEN or PC Console and dispatch.

NEXEDGE® Bridge



Introducing the ComLink™ NEXEDGE® Bridge by BridgeCom Systems, Inc. The NEXEDGE Bridge provides a communications bridge between a NEXEDGE digital talk group and the TL-NET talk group on a TL-NET network. TL-NET talk groups can consist of other NEXEDGE Bridge users, MOTOTRBO Bridge users, LTR, Conventional, iDEN or PC Console and dispatch.

MOTOTRBO is a registered trademark of Motorola
NEXEDGE is a registered trademark of Kenwood

SSMC-1

Site Networkable Mobile Comm Center

The SSMC-1 functions as a single channel communication site that can be networked into a service provider's wide-area network. The SSMC-1 contains BridgeCom Systems' CS-540 FM Repeater, TL-NET Repeater Controller, and TL-NET Ethernet Gateway packaged in a rugged wheeled case. The SSMC-1 is easily deployed on-site and only requires a high-speed ethernet connection to communicate on a wide-area network. The SSMC-1 supports operation in both conventional and LTR mode.



KEY FEATURES:

- Two-year warranty
- Free technical support
- Great for Public Safety and Disaster Relief Situations
- Pre-programmed
- Easily deployed
- Networked on-site using an Ethernet source like Satellite, cellular broadband air card, or DSL
- Custom built
- Available in UHF and VHF
- conventional and LTR supported
- Antenna duplexers for both bands optional
- Networkable to an unlimited number of conventional and LTR sites.

TL-Net Protocol – Key Features

The main component of the BridgeCom network is the TL-Net protocol. TL-Net has been developed by BridgeCom Systems specifically for Multi-Site networking of LTR ,CTCSS, NXDN, Mototrbo®, NEXEDGE® and many other formats.

Highlights of the TL-Net Protocol:

- Transmission trunking between sites. Remote sites are brought up as fast as handshaking with your local site.
- Conventional, LTR, Digital and almost any other format radio can be connected to the gateway to provide a network of mixed modes. For example, a conventional group using CTCSS can talk to an LTR talk group and a Mototrbo® digital talk group all at the same time accessing many sites on the network.
- Excellent audio quality. No loss of syllables on front-end or back-end of transmissions.
- Site specific calling. Give customers access to the sites they need.
- Push to register. Use sites only when needed.
- Uses existing standard LTR capable radios. No radio upgrades required.
- Networking equipment is easy to install and requires only one static or dynamic IP address per site.
- Both Server and Gateway can be configured to use dynamic DNS service.
- The Server and Gateway can be located behind a firewall.
- Network up to 20 repeater channels per site on just one IP address.
- Pass MDC 1200 and Fleetsync data between sites.
- Manage your entire system from any computer connected to the internet.
- Server-to-Server technology. Airtime service providers can connect their TL-Net systems together to create unlimited coverage areas.
- Windows based PC client support. Use a PC as a dispatch console or remote base station. Requires a Microphone, Speaker and a network connection.
- Standard 10/100 Base-T switches and routers. Use the customers existing network equipment, no special networking equipment required.
- Very easy system management. The Sys-op can use a web page based interface to manage the system.
- Virtual Private Networking can be used to create VPN tunnels between sites. The VPN tunnels provide a secure, encrypted connection between sites. This is optional and is not required.
- The Ethernet IP network can be a Local area network or the Internet.
- Very little bandwidth is required. A variety of different Codecs can be used varying in bandwidth from 5.9k to 64k bits/second resulting in end-to-end throughput of 16k to 80k bits/second per channel.
- Manage entire network from any computer with a web browser.
- Airtime usage data is in a ODBC compliant database. You can link your users airtime usage to Microsoft Excel, Access and many other report generator programs. Airtime usage is also available from our web page interface.
- Both server and gateway are housed in a 2U rack mountable chassis
- Lowest cost per wide-area channel in the industry

BridgeCom
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