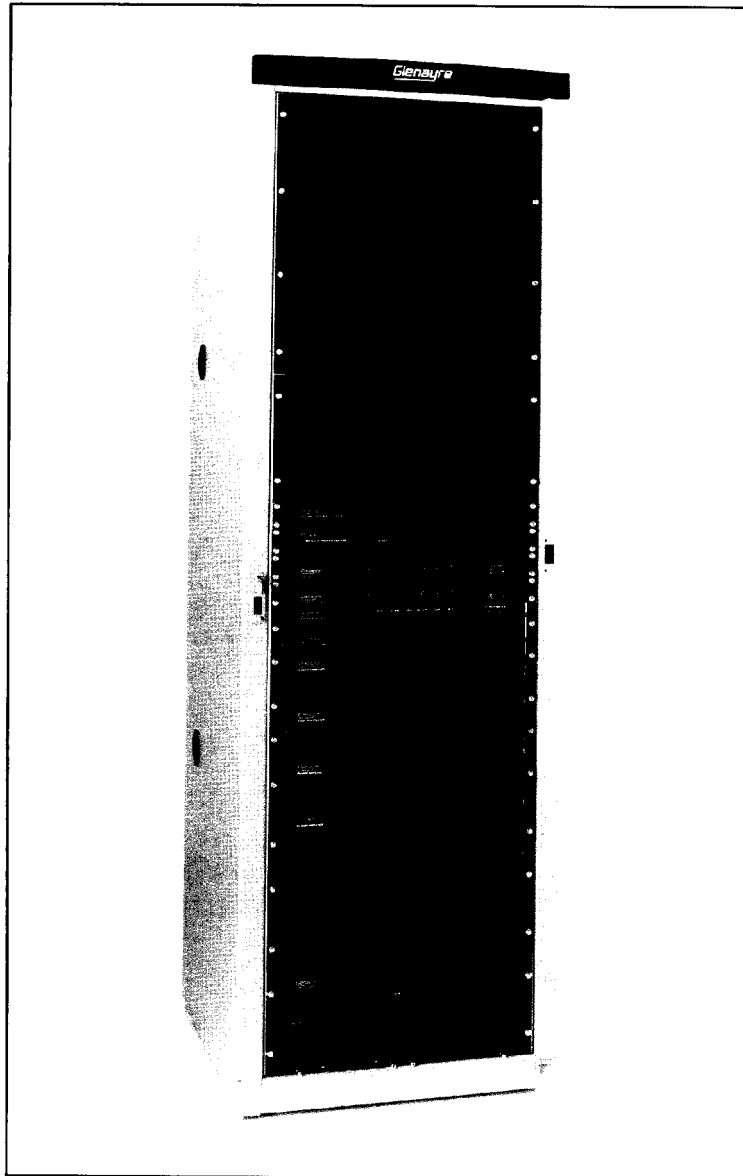

GL-T9000

NPCS Linear Transmitter System



Features:

- Improved Performance via DSP Technology
- Simple Modular Power Upgrade Options
- Supports Wide Variety of Protocols
- Compact Modular Design
- Integrated Network Management

Glenayre[®]

Glenayre is proud to introduce its powerful new GL-T9000 NPCS Linear Transmitter System. Available in a variety of power levels, the GL-T9000 NPCS Linear Transmitters support InFLEXion™ operation in a 50 kHz channel. Alternately, configuration for side-by-side operation of up to three ReFLEX25™ channels in a 50 kHz channel is possible without an external combiner. Other protocols can be accommodated simply by software upgrade, reducing the risk of obsolescence.

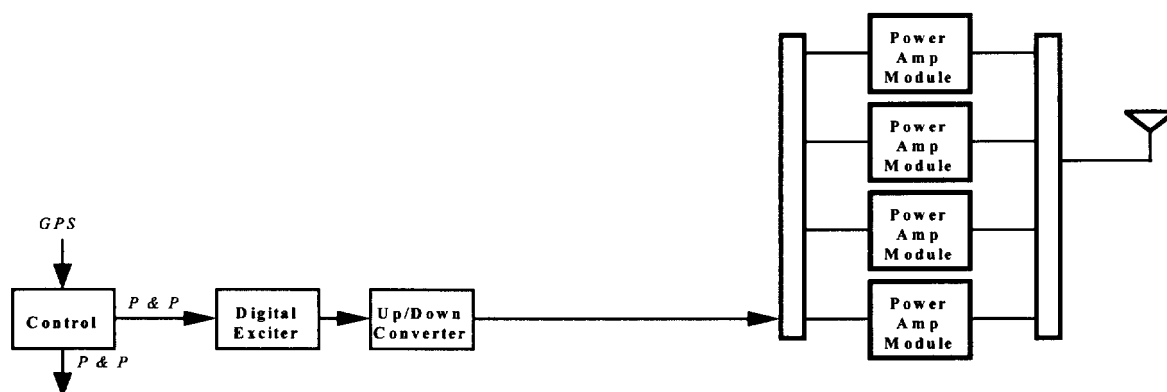
The design of the GL-T9000 transmitter employs advanced new techniques including DSP modulation and linearization. The GL-T9000 is expandable with customer growth requirements for increased power and subcarrier capacity via easily installed field upgrade kits.

Improved Performance via DSP Technology

- DSP modulation provides easy adaptation to all modulation schemes, and variable bandwidths up to 50 kHz
- DSP modulation accommodates multiple sub-channels
- DSP linearization provides excellent linearity while preserving power efficiency via patented techniques

Simple Modular Power Upgrade Options

- Variable power configurations support multi-subchannel, cellular-like, or conventional systems
- Single or multiple channel options
- Easily installed field upgrade kits



Block diagram of the High Power GL-T9604 NPCS Linear Transmitter System

Supports a Wide Variety of Protocols

- Supports InFLEXion™ and transmits high data rate messages at 75 watts per channel
- Supports ReFLEX25™ and ReFLEX50™ and supports simultaneous multi-channel FSK modulation
- Provides migration path between ReFLEX25™, InFLEXion™ and Conventional Paging
- Supports Plug & Play interface to base station control

Compact Modular Design

- Standard cabinet rack unit sizes: 23" wide by 22" deep
 - GL-T9501 = 10 rack units
 - GL-T9602 = 12 rack units
 - GL-T9604 = 16 rack units
- Easily upgraded in the field by replacing individual rack units

Integrated Network Management

- Exciter software can be downloaded remotely minimizing site visits for upgrades or configuration changes
- Advanced alarming and control capability
- Operational parameters adjustable in real-time, remotely or locally
- Full metering of Power Amplifier modules

Linear Transmitter Power Options

Model	Description	InFLEXion™	ReFLEX™			Conventional Paging	Peak Power	Tx Size (HxWxD")	Weight
			2-channel	3-channel	4-channel				
GL-T9501	Low Power Transmitter	Single Channel 75W	150 Wpc	67 Wpc	38 Wpc	to 500W	600W	18x19x22	300 lb.
GL-T9602	Mid Power Transmitter	Multichannel @ 75 Wpc	250 Wpc	111 Wpc	63 Wpc	to 500W	1,000 W	21x19x22	375 lb.
GL-T9604	High Power Transmitter	Multichannel @ 75 Wpc	250 Wpc	160 Wpc	125 Wpc	> 500 W	2,000 W	28x19x22	450 lb.

(Note: output power is measured at the output of the single isolator)

Linear Transmitter Specification

Parameter	Specification
TRANSMITTER FREQUENCY	
Frequency	929-942 MHz in 6.25kHz steps
Instantaneous Bandwidth	Variable: 50KHz or 25kHz
Channel Select Range	13MHz
Number of Channels	16
Frequency Deviation: (2-level)	±4800Hz Conventional
Frequency Deviation: (4-level)	Per FLEX™, InFLEXion™ and ReFLEX™ specifications
Frequency Offset	up to ±1,000HZ in 1 Hz increments
Frequency Stability	±0.001 ppm -30°C to +60°C
Isolation	20dB Single Stage Standard Optional Triple Circulator (75dB)
Conducted Spurious and Harmonic Emissions	Better than -80dBc (meets FCC Part 24 requirements)
TRANSMITTER MODULATION	
Signaling	All digital paging protocols
Modulator Design	Multichannel DSP based Exciter
Paging Data Rates	2 level: up to 3200 bps 4 level: up to 6400 bps ReFLEX25™ up to 19,200 bps ReFLEX50™ up to 25,600 bps InFLEXion™ per specification
TRANSMITTER INPUT POWER	
Power Supply	Modular Switching and Ferro Resonant options
AC Power Input	196-264 VAC @ 60 Hz nominal
TRANSMITTER OUTPUT POWER	
Power Output	Continuous duty cycle, selectable by user per channel
Antenna Connector	7/16 DIN
CONTROL OPTIONS	
Transmitter control	GL-C9000 Controller GL-C2000 Controller "Plug and Play" Exciter interface port options
ENVIRONMENTAL	
Operating Temperature	-30°C to +60°C
Operating Humidity	0% to 95% non condensing
Altitude	0 to 10,000 feet AMSL (derate 2°C per 1,000 feet above altitude of 5,000 feet)

Cabinet Options

Model	Description	Dimensions (HxWxD)
46i-GLT	Indoor Cabinet	46" x 23" x 22" (23 RU)
72i-GLT	Indoor Cabinet	72" x 23" x 22" (38 RU)
87i-GLT	Indoor Cabinet	87" x 23" x 22" (47 RU)
28o-GLT	Outdoor Cabinet, Floor, Wall or Pole Mount	28" x 23" x 23" (14 RU)
48o-GLT	Outdoor Cabinet	48" x 23" x 23" (20 RU)
72o-GLT	Outdoor Cabinet	72" x 23" x 23" (35-38 RU)

All specifications and features subject to change or improvement without notice



Worldwide Headquarters: 5935 Carnegie Blvd., Charlotte, N.C. 28209

For further information call:

U.S.A. (800) 543-2382 Canada (800) 565-5475 International (360) 332-1302

International Fax (360) 332-1403 Home Page: <http://www.glenayre.com>