

Exhibit 6

**MOTOROLA****SILVERLINK 2000**

Personal Telephone
CT2/CAI Compatible

The Personal
Communications Gateway



CT2...the new, advanced second generation digital cordless telephony. Bringing a family of products that provides freedom in communications, CT2 technology offers the user superior audio quality, a more secure means of communications, and, for the first time, a personal cordless telephone system capable of multiple environment use.

In today's highly mobile society, personal communications are a must. Personal means pocketable. And Motorola delivers the pocketable **SILVERLINK 2000**...a small, light yet durable personal cordless telephone.

KEY FEATURES

- Pocket Size
- CAI Compatible
- Access Up To 4 Service Providers
- Access Up To 8 Personal Bases
- Memory Storage and Dialing
- Last Number Redial
- Adjustable Ringer Volume
- Adjustable Speaker Volume
- Keypad Lock
- Choice of Primary or Rechargeable Battery

SILVERLINK 2000 Personal Telephone

Performance Specifications – All specifications comply with CAI (MPT1375) and all standards therein.

GENERAL

Model: S35XCD1000AA
Dimensions: 2.20 x 5.91 x .95 inches (5.58 x 15.01 x 2.41 cm)
Volume: 8.5 cubic inches (136 cubic cm)
Weight: 6.58 ounces (186.5 grams) with AAAs, 7.14 ounces (200 grams) with Ni-Cd
Operating Temperature: -20° to +60° C (-4° F to 140° F)
Digital Speech Coding Type: Adaptive Differential Pulse Code Modulation (ADPCM)
Channel Bit Rate: 72 kbit/s
Data Rate Stability: 100 ppm Reference 72 kbit/s
Speech Bit Rate: 32 kbit/s
Power Requirements: Three AAA alkaline batteries (1.5 V each cell)
One Nickel Cadmium rechargeable battery pack (optional)
Battery life: Alkaline: 6 hrs. continuous talk time / 40 hrs. continuous standby time
Nickel Cadmium: 3 hrs. continuous talk time / 24 hrs. continuous standby time

RF SYSTEM PARAMETERS

Frequency Band: 864.1-868.1 MHz
Channel Spacing: 100 kHz
Total Channel Capability: 40
Duplex Method: Time Division Duplex (TDD) (Transmit and Receive on same frequency)
Transmit/Receive Period: 1/1 millisecond
Modulation: Binary FSK

TRANSMITTER

RF Output power: 10 mW ERP maximum
Frequency Tolerance: +/- 10 kHz
Peak Frequency Deviation: 19.8 kHz (+/- 5.4 kHz)
Adjacent Channel Power: Not exceeding 10 uW at 100 kHz from nominal operating frequency in 80 kHz bandwidth
Spurious Emissions: Not exceeding 4 nW at frequencies: 41-68, 87.5-118, 162-230 and 470-862 MHz
Not exceeding 250 nW at all other frequencies < 1 GHz
Not exceeding 1 uW at frequencies > 1 GHz

RECEIVER

Sensitivity (.001 BER): 40 dB uV/m typical
Spurious & Image Rejection: Per CAI MPT1375
Intermodulation: -40 dB (at Reference 45 dB uV/m)

BATTERY CHARGER

Input: 110, 120, 220, 240 VAC, 50-60 Hz
Output per Charging Pos.: 45 mA (nominal) telephone / 20 mA (nominal) cell pack
Size: 5.83 x 3.78 x 2.17 inches (14.8 x 9.6 x 5.5 cm)
Weight: 4.64 ounces (132 grams)



Support Services
Wherever Motorola sells, our product is backed by service. In the U.S., we have 900 authorized or company-owned centers. In addition, our products are serviced throughout the world by a wide network of company or authorized independent distributor service organizations.



MOTOROLA

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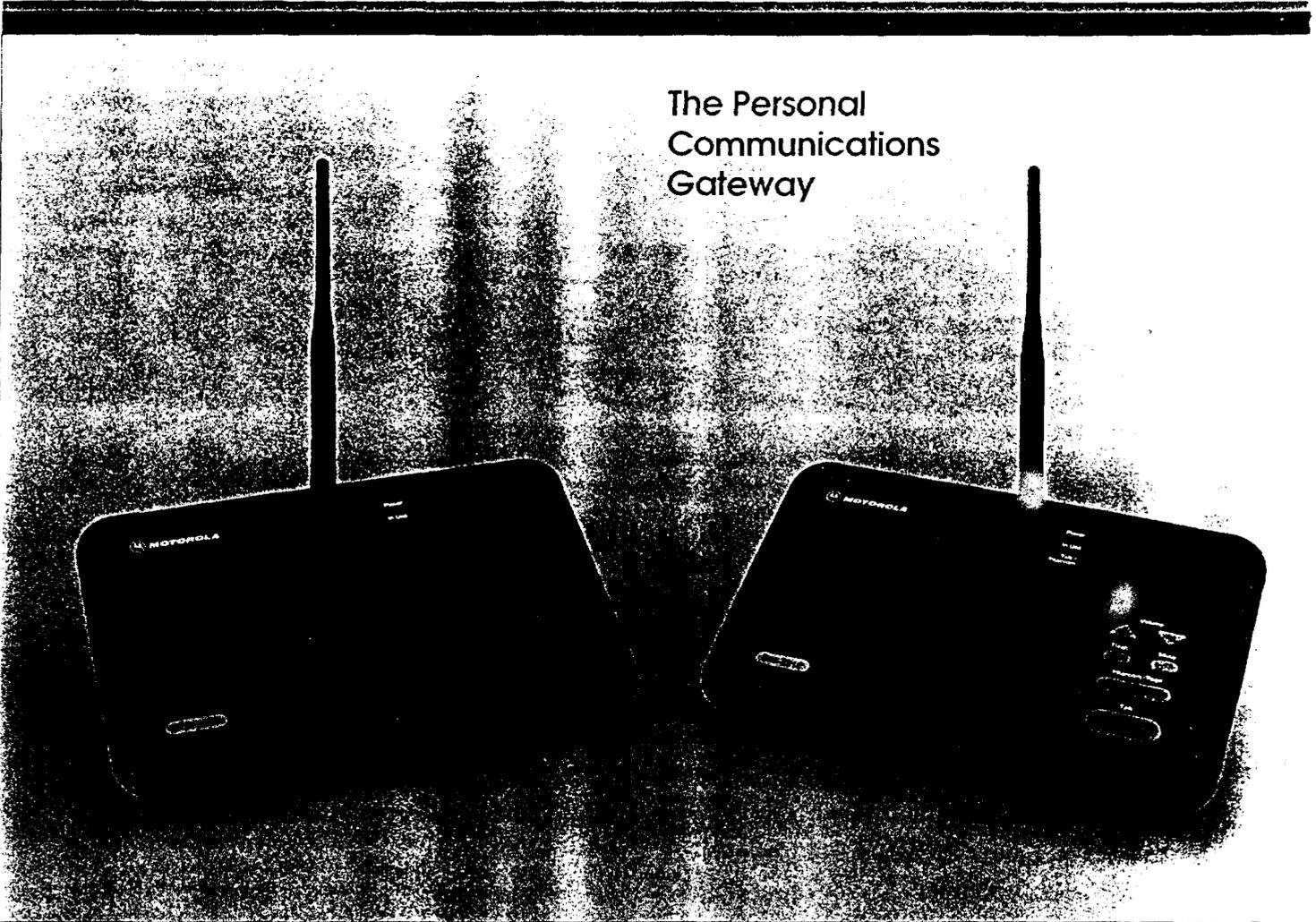
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SILVERLINK 2010 and 2020

Personal Base Stations
CT2/CAI Compatible

The Personal Communications Gateway



CT2...the new, advanced second generation digital cordless telephony. Bringing a family of products that provides freedom in communications, CT2 technology offers the user superior audio quality, a more secure means of communication, and, for the first time, a personal cordless telephone system capable of multiple environment use.

The **SILVERLINK** personal base stations allow the user to initiate and receive calls with any CAI compatible personal telephone. The personal base stations are stylish, designed for use in the home or office, and include the most desired telephone features. Motorola offers a family of personal base stations that gives the user flexibility in configuring their personal cordless communication system.

KEY FEATURES:

- CAI Compatible
- DTMF/LD Capable
- Single Line
- Outgoing Call Restriction
- Incoming Call Priority
- Secure Registration
- Multiple Registration (Up to 8 ID's)
- Programmable Dialing Parameters
- Back Up Battery Power Capability
- Intercom/Page (**SILVERLINK 2020**)
- Speaker Phone (**SILVERLINK 2020**)

SILVERLINK 2010 & 2020 PERSONAL BASE STATION

Performance Specifications – All specifications comply with CAI (MPT1375) and all standards therein.

GENERAL

Model:	S35XCC1100AP (SILVERLINK 2010), S35XCC1107AP (SILVERLINK 2020)
Dimensions:	8.82 x 6.42 x 2.68 inches, (22.4 x 16.3 x 6.9 cm)
Weight:	28.67 ounces (814 grams)
Operating Temperature:	-20° to +60° C
Digital Speech Coding Type:	Adaptive Differential Pulse Code Modulation (ADPCM)
Channel Bit Rate:	72 KBPS
Data Rate Stability:	50 ppm Reference 72 KBPS
Speech Bit Rate:	32 KBPS
Voltage:	110, 120, 220, 240 VAC, 50-60 Hz
Back up battery:	6 AA Alkaline cells provide 8 hours continuous talk time/ (batteries not included) 24 hours standby time (without speaker phone activation)

RF SYSTEM PARAMETERS

Frequency Band:	864.1-868.1 MHz
Channel Spacing:	100 kHz
Total Channel Capability:	40
Duplex Method:	Time Division Duplex (TDD) (Transmit and Receive on same frequency)
Transmit/Receive Period:	1/1 millisecond
Modulation:	Binary FSK

TRANSMITTER

RF Output power:	10 mW maximum
Output Impedance:	50 Ohms
Frequency Tolerance:	+/- 10 kHz
Peak Frequency Deviation:	19.8 kHz (+/- 5.4 kHz)
Adjacent Channel Power:	Not exceeding 10 uW at 100 kHz from nominal operating frequency in 80 kHz bandwidth
Spurious Emissions:	Not exceeding 4 nW at frequencies: 41-68, 87.5-118, 162-230 and 470-862 MHz Not exceeding 250 nW at all other frequencies < 1 GHz Not exceeding 1 uW at frequencies > 1 GHz

RECEIVER

Sensitivity (.001 BER):	40 dB uV/m typical
Spurious & Image Rejection:	Per CAI MPT1375
Intermodulation:	-40 dB (at Reference 45 dB uV/m)

TELEPHONE INTERFACE CHARACTERISTICS

Audio Distortion:	Less than 5%
Audio Frequency Response:	300-3000 Hz, +1 dB, -3 dB
Audio Signal-to-noise ratio:	Better than 35 dB
Input Longitudinal Balance:	Better than 60 dB (300-1000 Hz), Better than 65 dB (1000-3400 Hz)



Support Services

Wherever Motorola sells, our product is backed by service. In the U.S., we have 900 authorized or company-owned centers. In addition, our products are serviced throughout the world by a wide network of company or authorized independent distributor service organizations.



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SILVERLINK

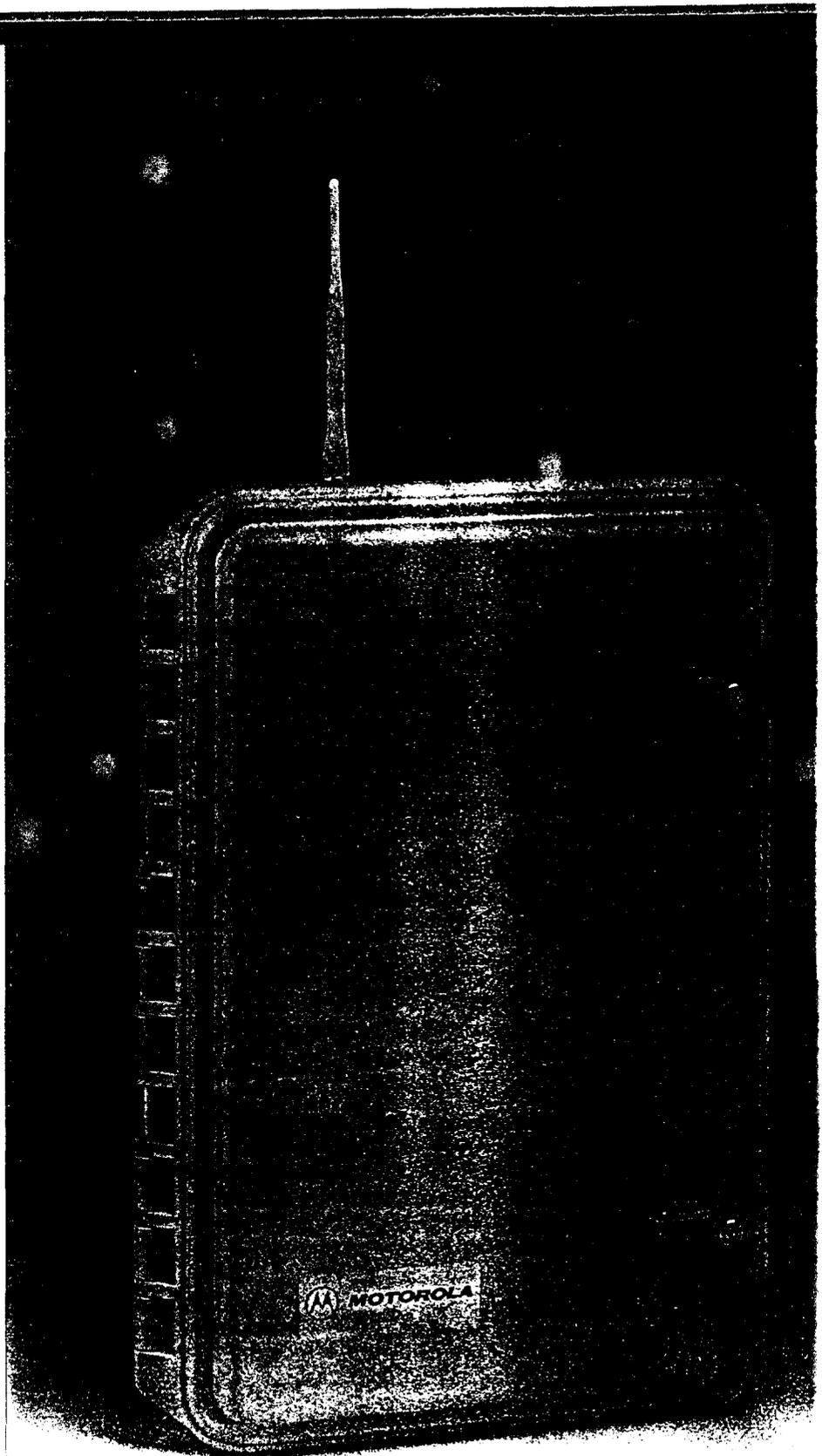
Telepoint Base Station
CT2/CAI Compatible

CT2...the new, advanced second generation digital cordless telephony. Bringing a new family of products that provides freedom in communications, CT2 technology offers the user superior audio quality, a more secure means of communications, and a personal cordless telephone capable of multiple environment use.

The public base station connects to the PSTN and provides subscribers with a low cost telephony service. Motorola's base station is designed for maximum operator flexibility: expandable from two to six telephone lines, a cabinet for indoor and outdoor applications, a variety of antenna choices, and modular architecture.

KEY FEATURES:

- CAI Compatible
- 100% Continuous Duty Transmitter
- Excellent Speech Quality
- Time Division Duplex Operation
- Microprocessor Control
- Expandable Database
- Modular Design
- Built-in Diagnostics
- Memory Protection
- Auto Download / Upload of Data
- Secure Algorithm Protection
- Indoor / Outdoor Design
- Secure Cabinet



SILVERLINK Telepoint Base Station

Performance Specifications – All specifications comply with CAI (MPT1375) and all standards therein.

GENERAL

MODELS:	S35XGB1202AP 2 LINE W/ INTERNAL COMBINERS	S35XGB1402AP 4 LINE W/ INTERNAL COMBINERS	S35XGB1602AP 6 LINE W/ INTERNAL COMBINERS	S35XGB1200AP 2 LINE W/O INTERNAL COMBINERS	S35XGB1400AP 4 LINE W/O INTERNAL COMBINERS	S35XGB1600AP 6 LINE W/O INTERNAL COMBINERS
Dimensions: 57.6 cmH x 39.4cmW x 28.7cmD 22.7"H x 15.5"W x 11.3"D						
Weight:		25 lbs (2 line, no battery) 27.5 lbs (4 line, no battery) 30 lbs (6 line, no battery) 9 lbs additional for battery	11.3 Kg (2 line, no battery) 12.4 Kg (4 line, no battery) 13.6 Kg (6 line, no battery) 4 Kg additional for optional battery			
Standard Operating Temperature:		0° to 60°C				
Rain Intrusion:		MIL-STD 810C/D (Procedure 1)				
Color:		One standard color, light grey				
Digital Speech Coding Type:		Adaptive Differential Pulse Code Modulation (ADPCM)				
Channel Bit Rate:		72 KBPS				
Data Rate Stability:		50 ppm Reference 72 KBPS				
Speech Bit Rate:		32 KBPS				
Signaling Channel Rate:		1 or 2 KBPS				
Modem Speeds:		1200 Baud Standard, 2400 Baud optional.				
Power Consumption with 6 transceivers:		60 Watts				
Input Voltage:		110/230 VAC, 50-60 Hz				
Memory Size:		10,000 Subscribers minimum per 2 lines. Expandable. 600 call details minimum per 2 lines. Expandable.				
Special List Sizes:		10,000 subscribers minimum. Expandable. (new lists, zap lists, hot lists, etc.)				

RF SYSTEM PARAMETERS

Frequency Band:	864.1-868.1 MHz
Channel Spacing:	100 kHz
Total Channel Capability:	40
Duplex Method:	Time Division Duplex (TDD) (Transmit and Receive on same frequency)
Transmit/Receive Period:	1/1. millisecond
Modulation:	Binary FSK
Maximum Simultaneous Conversations per base:	6

TRANSMITTER

RF Output power:	10 mW maximum (adjustable)
Output Impedance:	50 Ohms
Frequency Tolerance:	+/- 10 kHz
Peak Frequency Deviation:	19.8 kHz (+/- 5.4 kHz)
Adjacent Channel Power:	Not exceeding 10 uW at 100 kHz from nominal operating frequency in 80 kHz bandwidth
Spurious Emissions:	Not exceeding 4 nW at frequencies: 41-68, 87.5-118, 162-230 and 470-862 MHz Not exceeding 250 nW at all other frequencies < 1 GHz Not exceeding 1 uW at frequencies > 1 GHz
Intermodulation:	Less than 4 nW ERP (10 kHz bandwidth)

RECEIVER

Sensitivity (.001 BER):	40 dB uV/m typical
Spurious & Image Rejection:	Per CAI MPT 1375
Intermodulation:	-40 dB (at Reference 45 db uV/m)

TELEPHONE INTERFACE CHARACTERISTICS

Audio Distortion:	Less than 5% 300-3000 Hz + 1 dB, -3dB
Audio Frequency Response:	Better than 35 dB
Audio Signal to Noise Ratio:	Better than 60 dB (300-1000 Hz)
Input Longitudinal Balance:	Better than 65 dB (1000-3400 Hz)



Support Services

Wherever Motorola sells, our product is backed by service. In the U.S., we have 900 authorized or company-owned centers. In addition, our products are serviced throughout the world by a wide network of company or authorized independent distributor service organizations.



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Exhibit 7

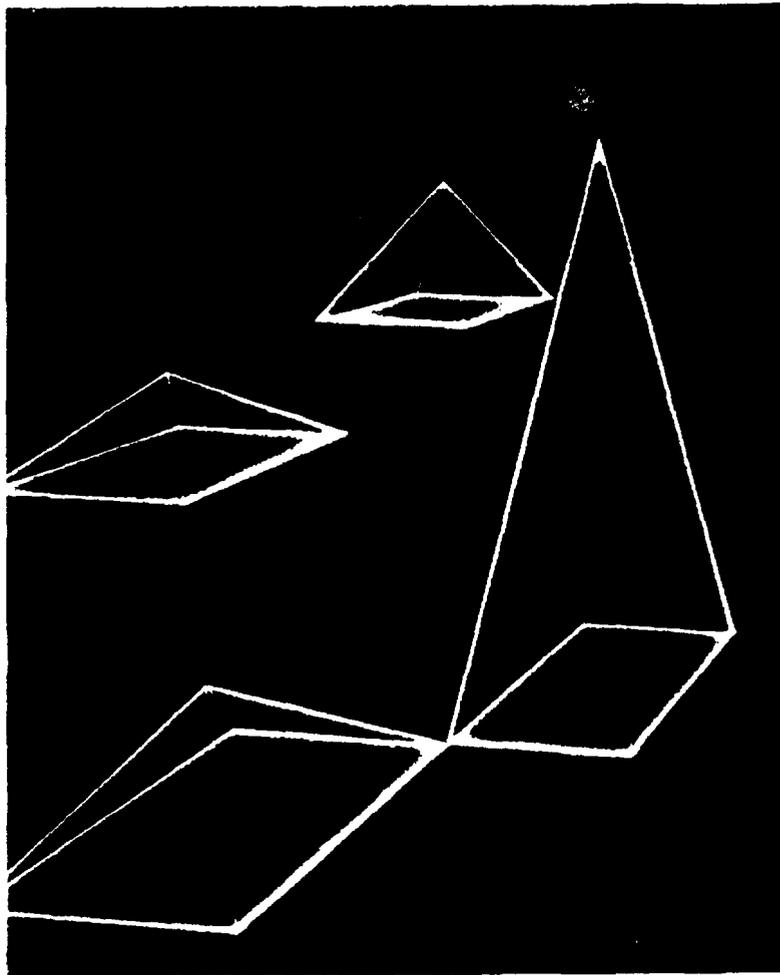
MicroFill™

Structure Specific Coverage

Decibel
Multi
Media
Microcell
Systems

T E C H N O L O G I E S M E E T

W H E R E C O M M U N I C A T I O N



Improve In-Building Coverage And Add Cellular Subscribers.

Anyone who uses hand-held cellular phones understands the frustration of dropped calls and poor or scratchy voice quality. Equally annoying is the inability to make calls inside buildings, subway stations, pedestrian tunnels and other covered structures—particularly when these are often the very places from which calls need to be made.

Fortunately, there's a solution: MicroFill from Decibel Products, an RF distribution system specifically designed to provide basic service or microcellular coverage inside buildings, tunnels and other such structures.

Provide Clean, Clear Signals With Reduced Interference.

Currently, cellular coverage inside buildings and other structures is provided by radiating a signal from a nearby cell site that is strong enough to penetrate exterior walls and saturate the interior. Unfortunately, this power approach to in-building coverage often causes interference to other calls in the network. Such interference occurs because direct and reflected RF signals from the high-power site reduce the signal-to-interference ratio in cells which use the same frequencies. As a result, system capacity is limited and call quality lowered.

MicroFill, on the other hand, is designed to counter co-channel interference, thereby allowing system operators to provide the higher quality

of service today's cellular customers demand. MicroFill uses state-of-the-art amplifiers, 75 ohm coaxial cable and specially designed antennas to distribute precisely controlled RF signals throughout the desired area. The result is clear, clean communications with little or no interference to co-channel cells.

Cost Savings As Much As 75% With No Performance Loss.

The MicroFill system uses a 75 ohm coaxial cable distribution system. In many buildings, 75 ohm cables have been pre-installed for use with CATV and LANs. With 75 ohm cable, a cost savings of up to 75 percent over current 50 ohm cables of equal electrical specifications is possible. Since the amplifiers and the antennas are designed for 75 ohm impedance, no electrical performance is sacrificed.

By utilizing a distributed gain/radiation system, only the required amount of signal is radiated at various locations inside a structure to provide coverage. Buildings with no coverage can be provided with cellular service easily and cost effectively. Buildings already served by high-powered sites can continue to be served while power and interference are reduced.

In high-use environments, such as downtown office buildings, network capacity can be increased by "off loading" in-building users to a MicroFill system served by a dedicated cell. In conjunction with

Decibel's MicroLite™ Fiber Optic Microcell System, the dedicated cell can serve several buildings.

MicroFill Handles TDMA, CDMA And Narrow Band As Well As Analog.

The MicroFill system is designed to be transparent to the cell site. This ensures that the investment in Decibel equipment will continue to perform even if you change MTSO or base station suppliers. High linearity throughout the system ensures compatibility with TDMA, CDMA and N-AMPS as well as analog systems. This linear design supports both today's analog systems and tomorrow's digital modulation scheme.

MicroFill Installs Easily and Economically At Many Convenient Locations.

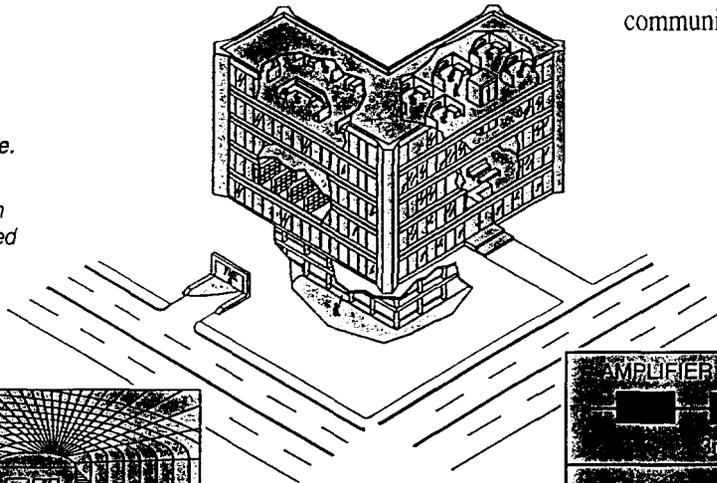
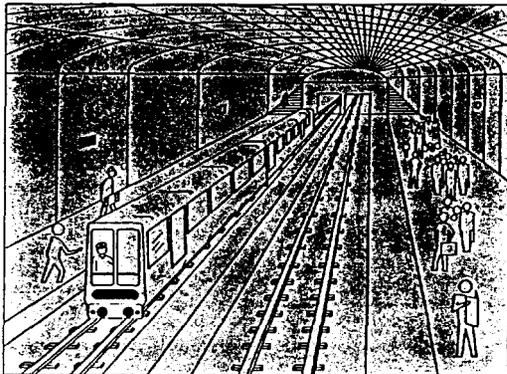
MicroFill's 75 ohm cables are designed for in-building distribution and are therefore easy to install. DC power is supplied to the in-line amplifiers through the coaxial cable. This further reduces the cost of installation, since in most cases an electrician is not required. The power source supplying the amplifiers is placed in an equipment closet and plugged into a standard electrical outlet. Uplink and downlink directional couplers provide easy setup and maintenance, as well as monitoring points in the system.

Omni and directional antennas are available to equalize coverage and signal strength. The antenna radomes are designed to be as inconspicuous as possible, looking no more objectionable than a smoke detector.

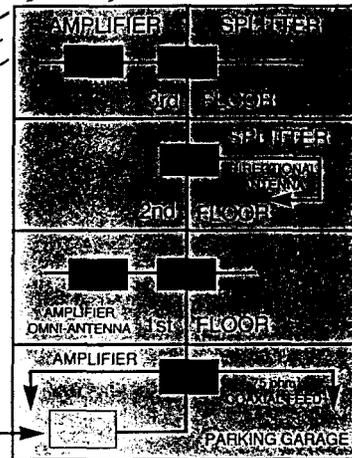
MicroFill is a member of Decibel Products' Multi Media Microcell Systems family. It is designed to work with other products including MicroLite, a fiber optic microcell system, the 16-Channel DB4416 Power Combiner, PrismPlus repeaters and a selection of specialized low-profile interior and exterior antennas. Together, these products provide cellular system engineers with the tools to meet the challenges of today's subscribers while building the foundation for future personal communications networks.

Specialized Coverage.

MicroFill, Decibel's 75 ohm RF distribution system, offers improved portable coverage and PCN-type service to buildings, tunnels, parking garages, etc.



Input from Cell Site, MicroLite, or PrismPlus.

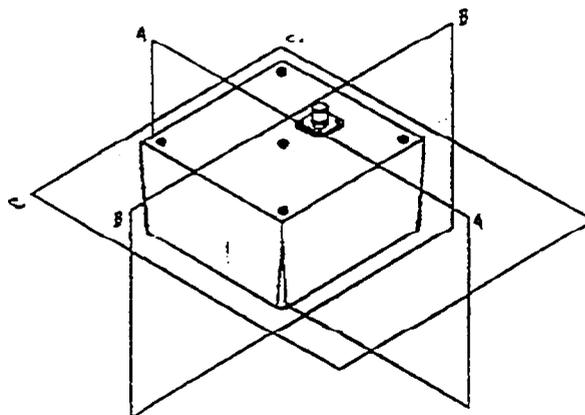
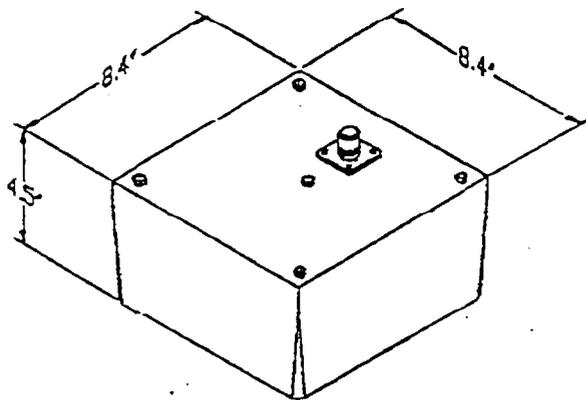




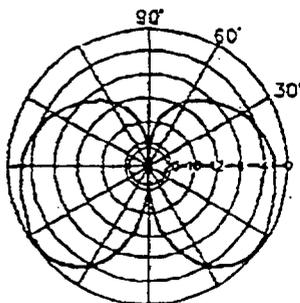
DECIBEL PRODUCTS

Micro Fill Indoor Antenna DB781S50N-C, DB781S75F-C

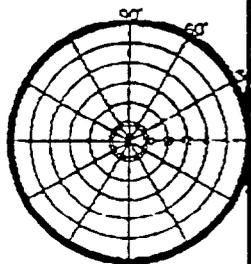
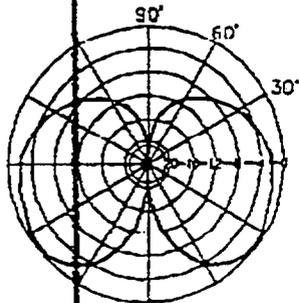
Model Number	DB781S50N-C	DB781S75F-C
Impedance	50 ohms	75 ohms
Termination	Type N-Female	Type F-Female
Frequency Range	824-894 MHz	
Gain	1.0 dBi or 3.1 dBi	
VSWR	<1.5:1	
Pattern Characteristic	"Butterfly" pattern with freespace null directly below antenna	
Polarization	Perpendicular to C-C plane	
Max. Input Power	50 Watts	
Other Information	Application: Indoor Tx/Rx	
Weight	1.7 lbs	
Material	Back Panel: Brass	Radiating Elements: Brass
		Radome: ABS Plastic
Color	Off-White	
Mounting	Four mounting holes in backplate.	
Packing Size	12" x 12" x 12"	
Shipping Weight	2.7 lbs	



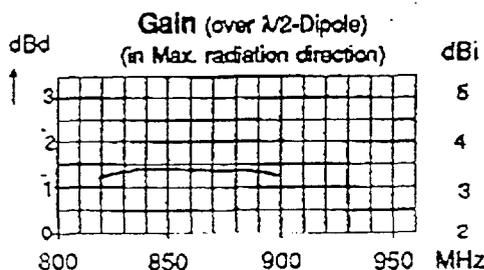
Plane A-A



Plane B-B



Plane C-C

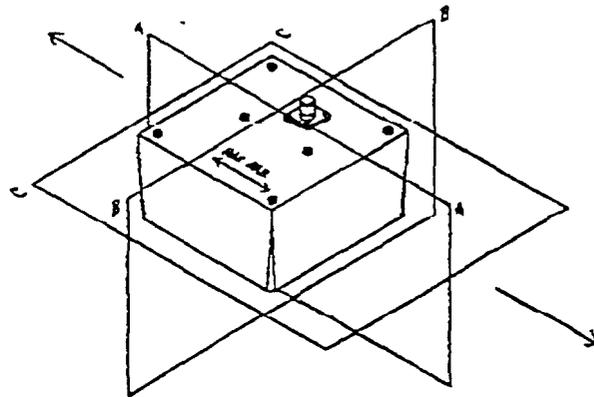
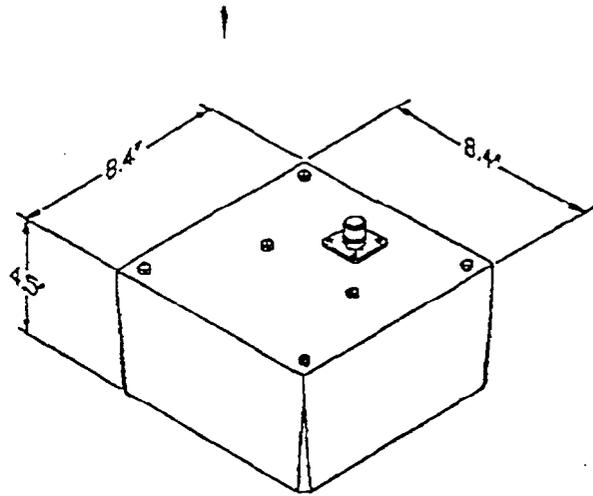




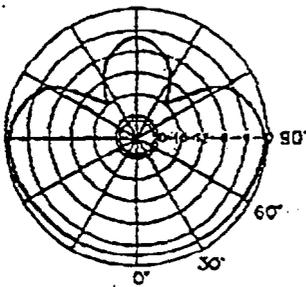
DECIBEL PRODUCTS

Micro Fill Indoor Antenna DB781D50N-C, DB781D75F-C

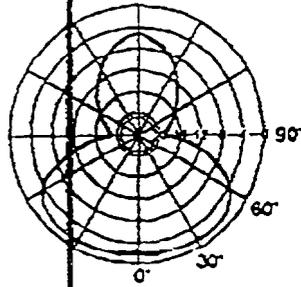
Model Number	DB781D50N-C	DB781D75F-C
Impedance	50 ohms	75 ohms
Termination	Type N-Female	Type F-Female
Frequency Range	824-894 MHz	
Gain	> 4.0 dBd or >6.1 dBi Max in A-A and C-C plane	
VSWR	<1.5:1	
Beamwidth (3 dB from max)	225° N.A. N.A.	A-A plane B-B plane C-C plane
Polarization	Perpendicular to C-C plane	
Max. Input Power	50 Watts	
Other Information	Application: Indoor TX/RX	
Weight	2.2 lbs	
Material	Back Panel: Radiating Elements: Radome:	Brass Brass ABS Plastic
Color	Off-White	
Mounting	Four mounting holes in backplate.	
Packing Size	12" x 12" x 12"	
Shipping Weight	3.2 lbs	



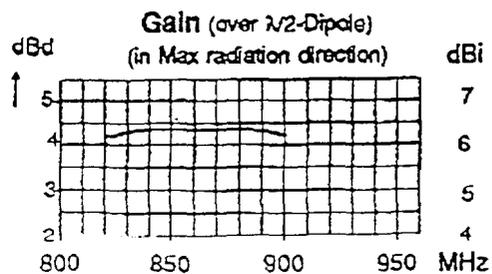
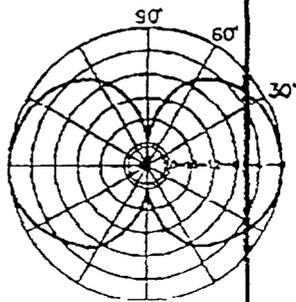
Plane A-A



Plane B-B



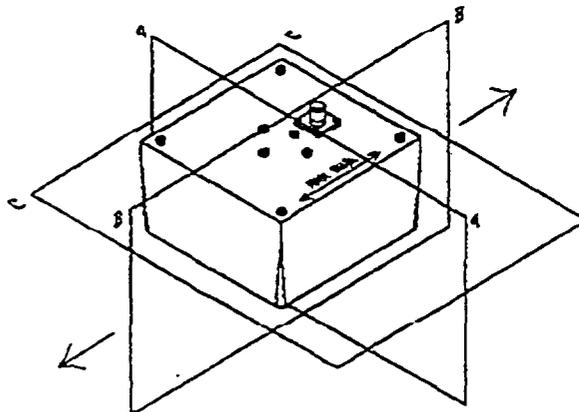
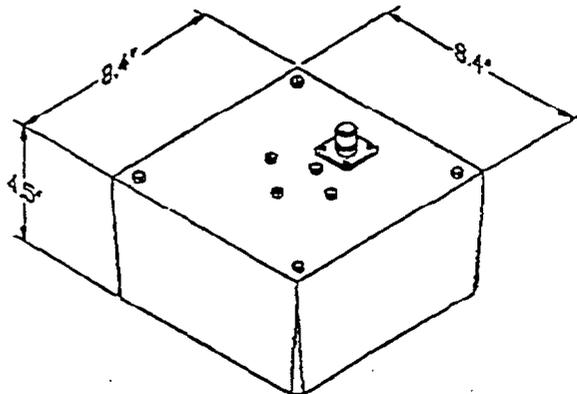
Plane C-C



DECIBEL PRODUCTS

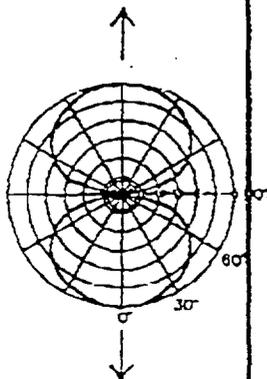
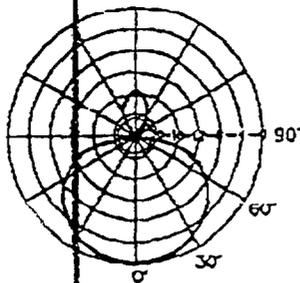
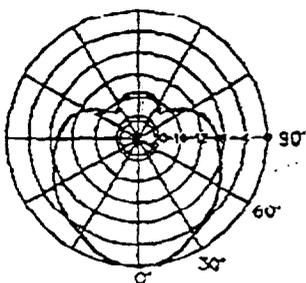
Micro Fill Indoor Antenna DB781LP50N-C, DB781LP50F-C

Model Number	DB781LP50N-C	DB781LP50F-C
Impedance	50 ohms	76 ohms
Termination	Type N-Female	Type F-Female
Frequency Range	824-894 MHz	
Gain	> 6.5 dBi or > 8.6 dBi	
VSWR	≤ 1.5:1	
Beamwidth (3 dB from max)	70° 90° 85°	A-A plane B-B plane C-C plane
Polarization	Perpendicular to C-C plane	
Max. Input Power	50 Watts	
Other Information	Application: Indoor Tx/Rx >10 dB F/B ratio	
Weight	.7 lbs	
Material	Back Panel: Radiating Elements: Radome:	Brass Brass ABS Plastic
Color	Off-White	
Mounting	Four mounting holes in backplate.	
Packing Size	12" x 12" x 12"	
Shipping Weight	2.7 lbs	

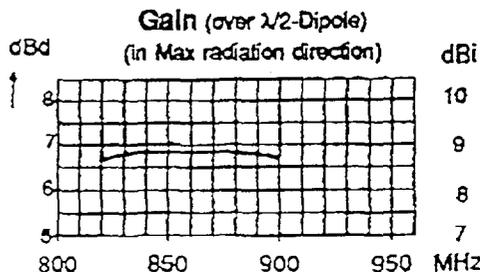


Plane B-B

Plane A-A



Plane C-C

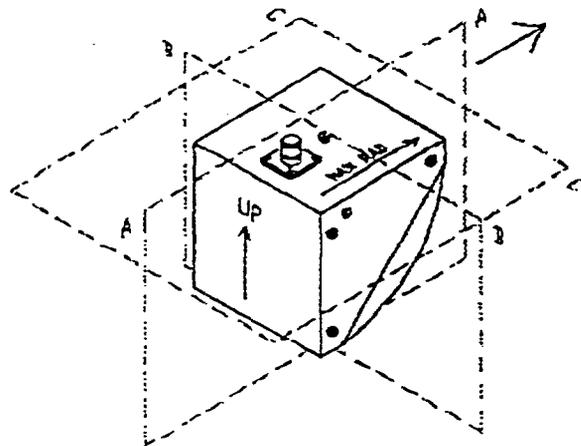
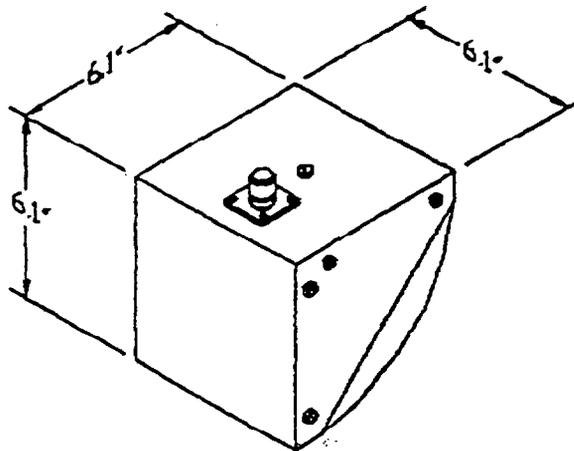




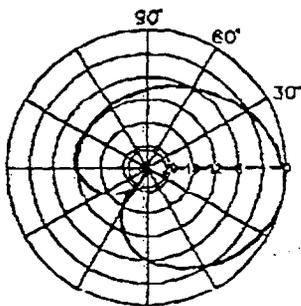
DECIBEL PRODUCTS

Micro Fill Indoor Antenna DB791S50N-C, DB791S75F-C

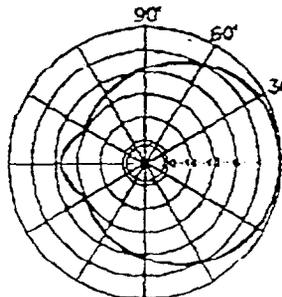
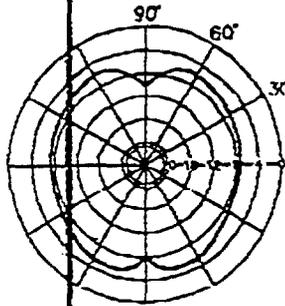
Model Number	DB791S50N-C	DB791S75F-C
Impedance	50 ohms	75 ohms
Termination	Type N-Female	Type F-Female
Frequency Range	824-894 MHz	
Gain	>6.0 dBi or >8.1 dBi	
VSWR	<1.5:1	
Beamwidth (3 dB from max)	80° 120° 105°	A-A Plane B-B Plane C-C Plane
Polarization	Perpendicular to C-C plane	
Max. Input Power	50 Watts	
Other Information	Application: Indoor Corner Tx/Rx with >10 dB Front to Back Ratio	
Weight	2.4 lbs	
Material	Back Panel: Radiating Elements: Radome:	Brass Brass ABS Plastic
Color	Off-White	
Mounting	Four mounting holes in backplate.	
Packing Size	12" x 12" x 12"	
Shipping Weight	2.4 lbs	



Plane A-A



Plane B-B



Plane C-C

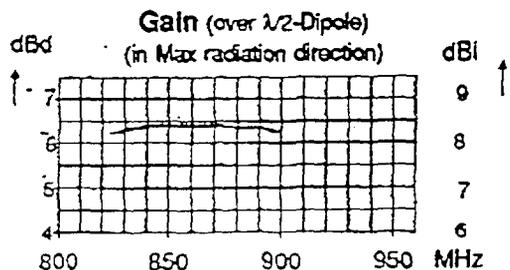
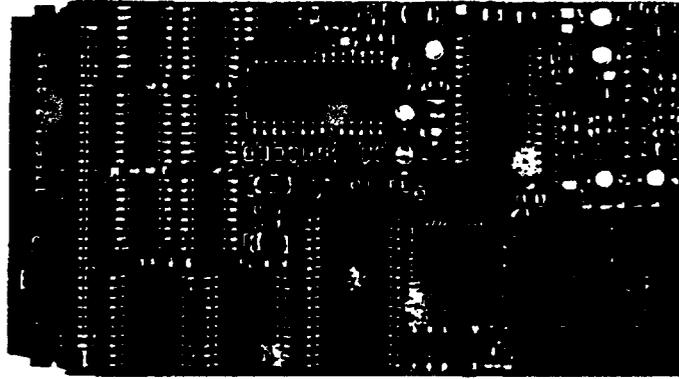


Exhibit 8

PCMCIA "Pager Card" Prototype (Forerunner of PCMCIA Transceiver Card)



Physical Characteristics

Card Type:	PCMCIA Type II
Interface:	PCMCIA Memory Card or I/O
Antenna:	<ul style="list-style-type: none">• Flush mount (battery could be incorporated into external handle; AAA preferred, AA probably too large)• Some manufacturers may require custom design and location.• Contact platform manufacturers on EMI and RFE compatability. This is consistent with other PCMCIA card product manufacturers.
Switch:	Power On-Off
Indicator:	Blinking LED <ul style="list-style-type: none">• Message waiting indicator• Low battery indicator when voltage drops to design unit
Display:	None
Label:	PCMCIA STU release/paragraph 3.1.7 label

PCMCIA "Pager Card" Prototype

(Continued)

Power Source

- Battery:
- 700 hours out of portable (350 hours lower limit)
 - Internal see PCMCIA STD release 1.0 paragraph 3.1.6 battery location
 - Consider re-chargeable options when card is inserted in platform
 - Use portable power source when card is inserted in PCMCIA slot
 - Insert and remove with portable power active

Product Features

Data Rate: 2,400 BPS; product evolution should anticipate upgrade to 4,800 or 9,600 BPS as 2nd generation product

Format: POCSAG (2400 BPS)

Address: Minimum of 4 POCSAG addresses. Minimum of 16 addresses including the 2 POCSAG function bits.

Memory: 32K bytes minimum

Internal Clock: Time and date stamp of all received messages or last packet received.

Electrical Requirements/
RF Requirements Commensurate with Motorola Bravo pager
Commensurate with Motorola Bravo pager

Portable Unit

(PCMCIA Card Driver Software)

Display Features: PCMCIA pager card should rely on software in the portable unit to manage the information in RAM

- Message waiting indicator
- Number of messages, type of message, time and date stamp of message arrival
- Low battery indicator for PCMCIA card when voltage not within operational limit
- Battery charging indicator (min./max.)
- PCMCIA card in-range indicator

PCMCIA Transceiver Card

Receiver: See PCMCIA receiver card

Transmitter:

Power Out:	100 mw to 500 mw
Frequency:	930 MHz
Modulation:	Constant Amplitude
Bandwidth:	FCC masking specification for 25 kHz bandwidth

U. S. Portable Computer Installed Base

	1985	1990	1995
Laptop	396 K	3859K	12,072K
Notebook		169K	6122K
Pen-based		9K	6110K
Handheld		94K	11,462K
Total	396 K	5537K	37,229K
% Growth		1300%	570%

Source: DATAQUEST, 1991

Summary Biographical Information -- Roger D. Linquist

PageMart, Inc.

CEO, PageMart, Inc. 1989-Present

- *Paging Business*
 - Founder of PageMart
 - Direct Broadcast Satellite (DBS) Control of paging transmitters (pioneering DBS system in Dallas/Ft. Worth, February 1990)

PacTel Personal Communications

CEO, PacTel Personal Communications, 1986-1989

- *Cellular Business (largest U.S. subscriber base)*
 - 100% or controlling interest: Los Angeles, San Diego, Sacramento, Atlanta, Detroit
 - Active minority interest (system management): San Francisco/San Jose
 - Passive minority interest: Dallas/Ft. Worth
- *Paging Business (Third largest)*
- *Automatic Vehicle Location*

Communications Industries

CEO (V. P., COO), Communications Industries, 1982-86

- *Paging Business (Third largest)*
- *Cellular Business*
 - Founding Director of Cellular Telecommunications Industry Association (CTIA)
 - 100% interest: Atlanta and San Diego
 - Minority interest: San Francisco/San Jose and Dallas/Ft. Worth
- *Manufacturing Business*
 - Paging switch manufacturer (BBL)
 - Mobile Communications Components Manufacturer (Decibel Products)

McKinsey & Co., Inc. (Management Consultants)

Management Consultant, McKinsey & Co, Inc., 1976-82

- *Telecommunications Business Practice*
- *Computer and Computer Peripheral Business Practice*
- *Space Systems Technology Businesses*

Texas Instruments

Department Manager, Video Systems and Calculator Products, 1974-1976

- *Consumer Products Division*
 - Video Systems Program (all electronic CCD camera)
 - Business calculator products

Branch Manager, Systems & Information Sciences, 1971-74

- *Central Research Laboratory*
 - Interactive Cable TV System Program (hardware and software development)
 - Advanced RF Receiver Technology (all solid state VHF/UHF TV Turner)

EDUCATION

Northwestern University -- MBA
Purdue University -- MSME
Purdue University -- BSME

Summary Biographical Information – Malcolm Lorang

PageMart, Inc.

V. P. Engineering, PageMart, 1989-Present

- Advanced wireless system and equipment design

International Teletrac Systems

Corporate Scientist, International Teletrac Systems, 1988-89

- Corporate Systems/Architect Engineer
- Liaison to AVM manufacturers and AVM Product/Architect Engineer

Texas Instruments

Member of Technical Staff, Texas Instruments, 1972-1988

- **Government Products Group:** Member of Technical Staff - Systems Engineer
- **Semiconductor Group:** System design for next generation Telco product IC's
- **Corporate Lab/Corporate Engineering Center:** Architect/Systems and Circuit Engineer of Bernouille disk product, facilities computer communications network product, video coding products and rf systems design.

Magnavox Research Labs

Senior Engineer, Magnavox Research Labs, 1957-1972

- System Architect and Engineer on Specialized communications systems, primarily on Spread Spectrum Communications Systems.

FORMAL EDUCATION

West Coast University -- MS, Operation Research
-- MS, System Engineering
-- MS, Management Science
Pacific State University -- BSEE

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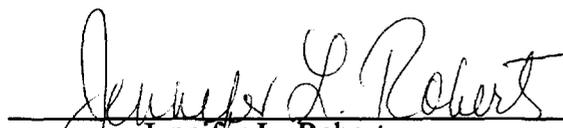
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CERTIFICATE OF SERVICE

I, Jennifer L. Roberts, do hereby certify on this 1st day of July, 1992, that I have served a copy of the foregoing document via hand delivery to the persons listed below.


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