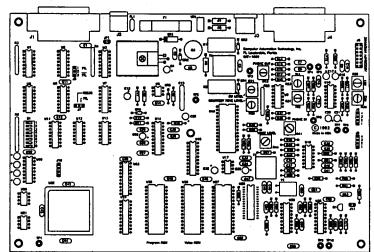
Computer Automation Technology, Inc. CAT-1000 Repeater Controller

CAT-1000 Repeater Controller

The CAT-1000 is packed with features normally reserved for controllers costing thousands of dollars more. Built on the foundation of the very successful CAT-500, this controller incorporates the features suggested by customers like you. Programming the CAT-1000 is a snap with carefully structured and uniform programming commands. The manual is easy to follow with numerous examples. The voice synthesizer interacts with you during each programming operation.

Features Include:

- * Voice Synthesizer
- * Forty Voice Messages
- * Digital Voice Clock
- * Grandfather Clock
- * Two CW Identifiers
- * Programmable Courtesy Tones
- * (64) Control Functions
- * (60) Position Scheduler
- * Full Feature Autopatch
- * (300) User Speed Dials
- * (10) Emergency Speed Dials
- * Reverse Autopatch
- * Last Number Redial
- Autopatch Cover Tone
- * Autopatch Time Extender
- * Phone Number Read Back
- * Phone Number Read Back
 * Caller ID Suppression
- * Phone Number Lock-Out
- * Area Code Discrimination
- * DTMF Repeater Access
- * DTMF Command Generator
- * Programmable Timers
- * Link Preset Frequencies
- * 300 baud on Board Modem
- * Memory Saves
- * Macro Strings



- * DTMF Paging
- * DTMF or Pulse Dialing
- * DTMF Window
- * Link Serial Tuning
- * TS-440 HF Remote Base
- * FT-767GX HF Remote Base
- * RS-232 Interface
- * Hardware Inputs
- * DVR Controller

- * DTMF Regenerator
- * DTMF Pad Test
- * DTMF Audio Muting
- * Programmable Prefix Codes
- * Link Auto Disconnect
- * Two-Tone Paging
- * TTL Computer Interface
- * User Function Switches
- * Doug Hall RBI-1 Interface

Voice Synthesizer

A vocabulary list of 475 words carefully selected for amateur repeater operation is available to construct any of 40 different voice messages. Each message can be 31 words in length. Configure your repeater ID and announcements to suit your particular needs. Chimes, sound effects and saluations in a female voice are also included. The voice synthesizer fully interacts with you during control and programming operations.

Digital Voice Clock

The voice will announce the time upon request, at the completion of an autopatch, during repeater IDs, or on the hour through the grandfather clock feature.

DTMF Key-Pad Test

A DTMF key-pad test will read back the numbers decoded in a synthesized voice. This includes the words "STAR" and "POUND."

Courtesy Tone

Memory space is provided for the storage of ten custom courtesy tones. Each tone can consist of up to three different tone frequencies of various lengths and separations.

LiTZ Emergency Alert

LITZ is a new system promoted by the ARRL to provide a means for a repeater user to request emergency assistance without being familiar with the operation of the repeater. If a repeater user transmits a DTMF [0] for three seconds, the CAT-1000 will alert the control operators.

Autopatch

A full feature autopatch with storage for three hundred speed dial numbers highlights the CAT-1000. Each speed dial location accepts numbers of up to eleven digits and includes space for the users call letters. The same is also true for the ten Emergency speed dial locations. Regular calls are preceded by a phone number read-back. This feature can be suppressed by a mic key-click. Long distance protection is provided by a first number 0-1 check. A twenty position table stores telephone numbers or whole prefixes to be locked-out. Area code discrimination will permit access to certain area codes. Last number re-dial. hook flash, and autopatch time extender commands round out the features. In addition to the Reverse autopatch, full telephone control and programming provides extra security.

Monitor By Telephone

This feature permits the control operator to call the repeater by telephone and monitor repeater activity. While in this mode, the transmitter can be turned on and off. This is useful when investigating intermodulation problems. The forced reverse autopatch command permits the control operator to join the QSO in progress.

Digital Voice Recorder

An optional DVR, controlled by the CAT-1000 through the MF-1000 serial card, can be added to your repeater. Control of the DVR is fully integrated into the CAT-1000 control and command structure. The CAT-1000 will permit you to substitute any of the sixteen DVR tracks in place of the messages normally generated by the voice synthesizer. In fact, you can even intermix DVR tracks with voice messages.

Scheduler

An advanced 60 position scheduler fully automates the operation of the repeater. Preschedule your repeater's operation to one minute accuracy. Program the hours, minutes, day of week, or day of month and month of year. The CAT-1000 will do the rest.

Repeater Control Prefix

Twenty-five prefix numbers control repeater operation. Each prefix is programmable from one to seven digits depending on the security you require.

Repeater Control Channels

The CAT-1000 has 64 remote control channels. Divided into groups of eight, according to their function, they can be manually controlled through the repeater, link or telephone.

ZONE 1 Repeater Transmitter Repeater CTCSS DTMF Access CTCSS Override Turn on Delay DTMF Window DTMF Muting

Control Operator CTCSS

ZONE 3

Repeater ID#1 (Rest) Repeater ID#2 (Active) Squelch Tail Message #1 Squelch Tail Message #2 Dropout Message #1 Dropout Message #2 Time of Day

Grandfather Clock **ZONE 5** Autopatch Pulse Dial Reverse Autopatch Dial One First

Phone Off Hook Ring Announcer Modem Auto Answer DTMF Generator

DTMF Regenerator ZONE 7

Hardware Input #1 Hardware Input #2 Hardware Input #3 Hardware Input #4 Hardware Input #5 Hardware Input #6 Hardware Input #7 Hardware Input #8 CW ID

ZONE 2 RPTR Timeout Squelch Tail Scheduler Enable

DTMF Pad Test LiTZ Emergency Alert Grandfather Clock Sleep

Courtesy Beep Talk Over Voice **ZONE 4**

Autopatch Enable Autopatch Timeout Long Distance Emergency 911 Speed Dial Enable Number Read Back Autopatch Radio Mute Autopatch Pre-Dial

ZONE 6 Link Receive Link Transmit Link Repeat Link CTCSS Link Voice

Link Auto Disconnect Computer Interface Ring Detector

ZONE 8 User Function Output #1 User Function Output #2 User Function Output #3 User Function Output #4 User Function Output #5 User Function Output #6 User Function Output #7 User function Output #8

repeater or sponsoring organization. If the repeater is in use, ID#2 will be

Repeater Timers A total of 18 timers control repeater operation. Each timer is user programmable to afford maximum flexibility to suit your requirements.

The CAT-1000 will switch to a CW ID when a user talks over the voice ID.

You program the speed and tone frequency. If the repeater is at rest, the

CAT-1000 will send ID #1. This ID should include information about your

User Function Switches

Eight switches control equipment at your repeater site. Controlled manually by DTMF commands, or by the scheduler, they can be made to turn OFF, ON or Momentarily change state, any time you choose.

DTMF Regenerator

The CAT-1000 will mimic your DTMF input. In sophisticated repeater systems, it is often necessary to pass DTMF commands to distant repeaters within the linking system. The CAT-1000 will swallow your tones and then regenerate the tones free of noise and distortion. This will insure reliable control of your linking network.

DTMF Command Generator

Store forty DTMF commands in the CAT-1000 memory. These commands can be sent manually or automatically by programming the scheduler.

Hardware Inputs

Eight hardware inputs activated by a positive voltage from other equipment at the repeater site, causes the CAT-1000 to execute any repeater command. External repeater control or information about the repeater site will be instantly available.

Repeater Programming

An extensive set of programming commands permits you to customize your repeater's operation. Protection is provided by a user programmable seven digit un-lock number. Once un-locked, use the programming commands to load voice messages, speed dial numbers, set the clock, change prefix codes and timer settings.

Macro

By entering a macro number, the CAT-1000 will execute up to ten commands in a string. Store up to 40 macros in memory. One Macro can be used to call a second Macro. Customize the control functions to suit your particular needs

300 Baud Modem

Program the CAT-1000 with your computer over the telephone line through the on board modem. Use any of the popular computer software programs for communication. Set the clock and timers, display and change control codes, and program the scheduler and speed dial numbers. Down load the CAT-1000 memory and store on disk to be up loaded later. Following is a list of computer programming commands:

Command Definition

Display and change AREA CODE numbers. area

call Display and change CW ID. clck Display and set the CLOCK.

Display and change CODE and PREFIX numbers. code

Display and program CTCSS commands. ctss Display and program SPEED DIAL numbers. dial

Display and program DTMF commands. dtmf extn Extend modem connect time.

hdwr Display and program HARDWARE input switch action.

Display and program LINK SERIAL TUNE frequencies. link

Display and program LOCK-OUT phone numbers. lock

Display and program MACRO commands. mcro

Displays this MENU of computer terminal commands. menu

Display and program PAGING tones. page

Enter a new PASSWORD for modem communications pass quit

Exit the computer terminal mode.

schd Display and program SCHEDULER activity.

Display ACTIVITY counters. stat

talk Display and program VOICE synthesizer messages.

Perform diagnostic TESTS on controller. test

Display and change TIMER settings. Display and program COURTESY tone. tone

usfw Display and program switches on MF-1000 card.

Display current software VERSION and release date. vers

xfer Xmodem file upload and download

Active Memory Save

Configure the CAT-1000 to suit your special requirements. Save the current settings of the control channels, prefix codes, timers and the first twelve voice messages. Space is provided for eight memory saves. These memory saves can be later recalled with a DTMF command.

HF Remote Base Interface

The CAT-1000 offers a serial port for HF transceiver control. By entering DTMF commands, the CAT-1000 will generate the ascii commands to control the TS-440 and FT-767GX transceivers. The CAT-1000 acts like a computer providing full control. The CAT-1000 will announce the status of the various transceiver functions. The CAT-1000 receives and sends serial information in both RS-232 and TTL format.

DTMF Paging

Enter a DTMF page on the telephone line and the CAT-1000 will rebroadcast the DTMF page to alert a repeater user with a DTMF squelch equipted radio.

Repeater Programming Commands

The following table describes the DTMF programming commands used to customize the CAT-1000 Repeater Controller operation. Protection is provided by a user programmable seven digit un-lock number. Once un-locked, use the programming commands in the ENTRY column to load voice messages, speed dial numbers, set the clock or change prefix codes and timer settings.

ENTRY	DESCRIPTION
*10XX	READ SCHEDULER COMMAND
*11XX	PROGRAM SCHEDULER COMMAND
*12XX	ERASE SCHEDULER COMMAND
*13XX	READ MACRO
*14XX	PROGRAM MACRO
*15XX	ERASE MACRO
*16X *17X	READ HARDWARE INPUT SWITCH PROGRAM HARDWARE INPUT SWITCH
*18X	ERASE HARDWARE INPUT SWITCH
*190	INITIALIZE ACTIVE MEMORY
*19X	SAVE ACTIVE MEMORY
*20	SEND TIME OF DAY
*21	PROGRAM TIME OF DAY
*298	READ PULSE DIAL RATE
*299	PROGRAM PULSE DIAL RATE
*30XX	SEND VOICE SYNTHESIZER
*31XX *32XX	PROGRAM VOICE SYNTHESIZER ERASE VOICE SYNTHESIZER
*32XX	SEND CW ID
*34	PROGRAM CW ID
*35	ERASE CW ID
*36XX	READ DTMF GENERATOR
*37XX	PROGRAM DTMF GENERATOR
*38XX	ERASE DTMF GENERATOR
*40XX	READ LINK FREQUENCY
*41XX	PROGRAM LINK FREQUENCY
*42XX *43XX	ERASE LINK FREQUENCY READ SERIAL CARD #1 SWITCH COMMANDS
*44XX	PROGRAM SERIAL CARD #1 SWITCH COMMANDS
*45XX	ERASE SERIAL CARD #1 SWITCH COMMANDS
*46XX	READ SERIAL CARD #2 SWITCH COMMANDS
*47XX	PROGRAM SERIAL CARD #2 SWITCH COMMANDS
*48XX	ERASE SERIAL CARD #2 SWITCH COMMANDS
*49X	PROGRAM RS-232 OPERATION MODE
501	PROGRAM CONTROL OPERATOR PREFIX
502	PROGRAM MACRO PREFIX
503	PROGRAM MEMORY RECALL PREFIX
504	PROGRAM DTMF GENERATOR PREFIX
505	PROGRAM DTMF ACCESS PREFIX
506	PROGRAM DIMF PAD TEST PREFIX
507	PROGRAM TIME OF DAY REQUEST PREFIX
508	PROGRAM LINK CONTROL PREFIX
509 *510*	PROGRAM LINK FREQUENCY LOAD PREFIX
510	PROGRAM USER FUNCTION SWITCH PREFIX PROGRAM SERIAL BOARD #1 SWITCH PREFIX
512	PROGRAM SERIAL BOARD #2 SWITCH PREFIX
513	PROGRAM AUTOPATCH ACCESS CODE
514	PROGRAM AUTOPATCH DISCONNECT PREFIX
515	PROGRAM USER SPEED DIAL (BLOCK 1) PREFIX
516	PROGRAM USER SPEED DIAL (BLOCK 2) PREFIX
517	PROGRAM USER SPEED DIAL (BLOCK 3) PREFIX
518	PROGRAM EMERGENCY SPEED DIAL PREFIX
519 *520*	PROGRAM VOICE PREFIX PROGRAM DVR PREFIX
720	FROUNTH DAK LKELTY

CAT-1000 Editor Program

Edit the eight memory files off line without communicating directly with the repeater. The editor includes a print driver and will work with any "XT" or "AT" type computer. Once the files have been changed and saved to disk, they can be uploaded using X-MODEM protocol.

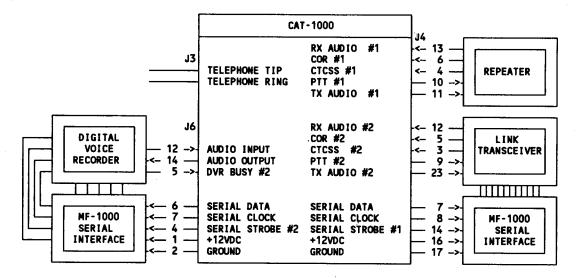
- 1	
ENTRY	DESCRIPTION
521	PROGRAM PAGING TONE PREFIX
522	PROGRAM REVERSE AUTOPATCH PREFIX
523	PROGRAM HE REMOTE BASE PREFIX
524	PROGRAM MONITOR REPEATER BY PHONE CODE
525	PROGRAM DIMF PAGING PREFIX CODE
601	PROGRAM REPEATER TIME-OUT
602	PROGRAM REPEATER SLEEP TIME
603	PROGRAM REPEATER TURN ON DELAY TIME
604	PROGRAM COR DROP TO COURTESY BEEP TIME
605	PROGRAM COURTESY BEEP TO PTT DROP TIME
606	PROGRAM DIMF MUTE DELAY TIME
607	PROGRAM REPEATER ID TIME
608	PROGRAM SQUELCH TAIL MESSAGE TIME
609	PROGRAM DROP OUT MESSAGE TIME
610	PROGRAM VOICE DELAY TIMER
611 *612*	PROGRAM AUTOPATCH TIME PROGRAM AUTOPATCH ACTIVITY TIME
613	PROGRAM DIMF PRE-WINDOW TIME
614	PROGRAM DIMP PRE-WINDOW TIME
615	PROGRAM PROGRAMMING MAX LENGTH TIME
616	PROGRAM AUDIO TEST TONE LENGTH
617	PROGRAM RING DETECTOR TIME
618	PROGRAM MODEM CONNECT TIME
619	RESERVED FOR FUTURE USE
*70XX	READ USER SPEED DIAL (BLOCK 1)
*71XX	PROGRAM USER SPEED DIAL (BLOCK 1)
*72XX	ERASE USER SPEED DIAL (BLOCK 1)
*73XX	READ USER SPEED DIAL (BLOCK 2)
*74XX	PROGRAM USER SPEED DIAL (BLOCK 2)
*75XX	ERASE USER SPEED DIAL (BLOCK 2)
*76XX	READ USER SPEED DIAL (BLOCK 3)
*77XX	PROGRAM USER SPEED DIAL (BLOCK 3)
*78XX	ERASE USER SPEED DIAL (BLOCK 3)
*80x	READ EMERGENCY SPEED DIAL
*81X	PROGRAM EMERGENCY SPEED DIAL
*82X	ERASE EMERGENCY SPEED DIAL
*83XX	READ LOCK-OUT PHONE NUMBER
*84XX	PROGRAM LOCK-OUT PHONE NUMBER
*85XX	ERASE LOCK-OUT PHONE NUMBER
*86XX	READ AREA CODE NUMBER
*87XX	PROGRAM AREA CODE NUMBER
*88XX	ERASE AREA CODE NUMBER
*89	PROGRAM PRE-DIAL NUMBER
*90	GENERATE 1000Hz TEST TONE
*91X	SEND COURTESY TONE
*92X	PROGRAM COURTESY TONE
*93X	ERASE COURTESY TONE
*94XX	PLAY DIGITAL VOICE RECORDER
*95XX	RECORD DIGITAL VOICE RECORDER
*96XX	SEND PAGING TONE
*97XX	PROGRAM PAGING TONE
*98XX	ERASE PAGING TONE
*0	MANUAL EXIT
<u> </u>	<u> </u>

Link Transceiver Control

The CAT-1000 will control a link transceiver. With the optional MF-1000 serial card, the CAT-1000 will accept commands on the repeater input to serial tune a link transceiver. You can also turn the link ON or OFF or enable just the link receiver. After a preselected period of inactivity the link will automatically disconnect.

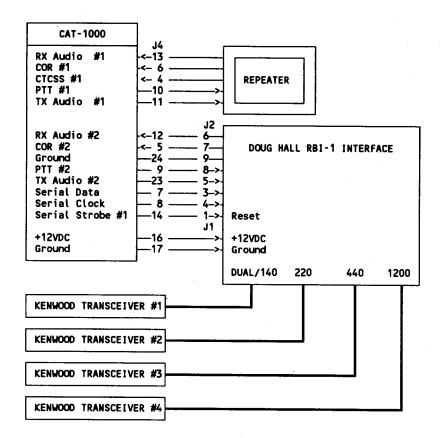
MF-1000 Serial Interface Card

This card serves a dual function by tuning a link transceiver or controlling a digital voice recorder. Both BCD and Push Button tuning of a link transceiver is supported. In the DVR mode, the MF-1000 controls track selection and the Play, Record, and Reset functions. Eight expanded user function switches are also available. The CAT-1000 will support two serial cards. Its possible to have a serial tuned link transceiver and a DVR at the same time.



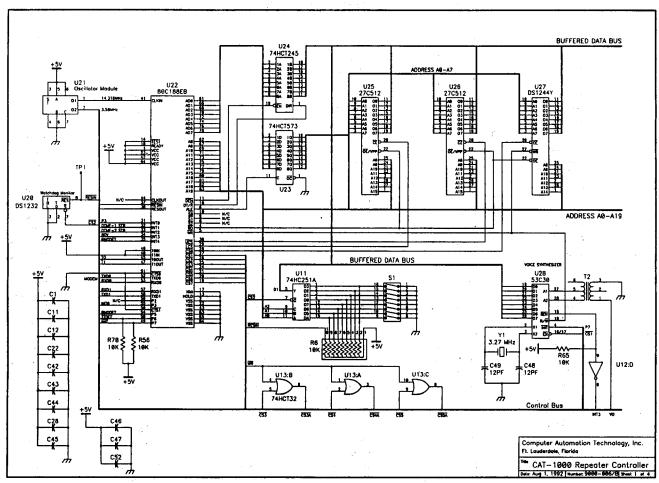
Doug Hall RBI-1 Interface

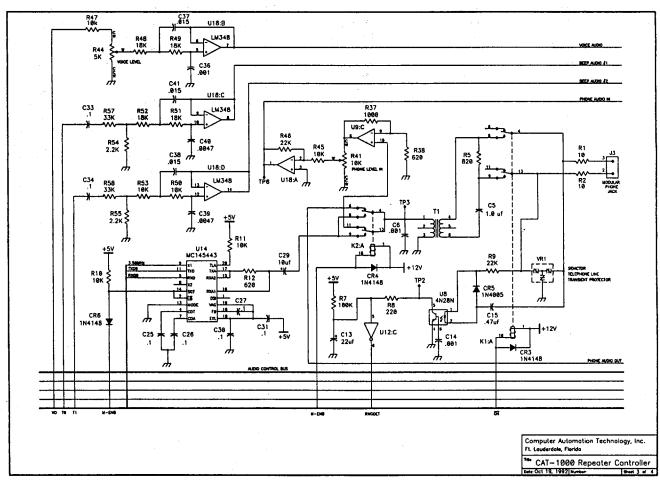
The RBI-1 receives serial data information from the CAT-1000 and converts it to the format required to control the Kenwood transceivers. All connections to the Kenwood transceivers are made through the microphone jack. In addition to band, frequency, offset and transmitter power, CTCSS tones can be selected remotely. The RBI-1 supports the following Kenwood Transceivers: TM-221, TM-231, TM-241, TM-321, TM-331, TM-421, TM-431, TM-441, TM-521, TM-531, TM-541, TM-621, TM-631, TM-701, TM-721, and TM-731.

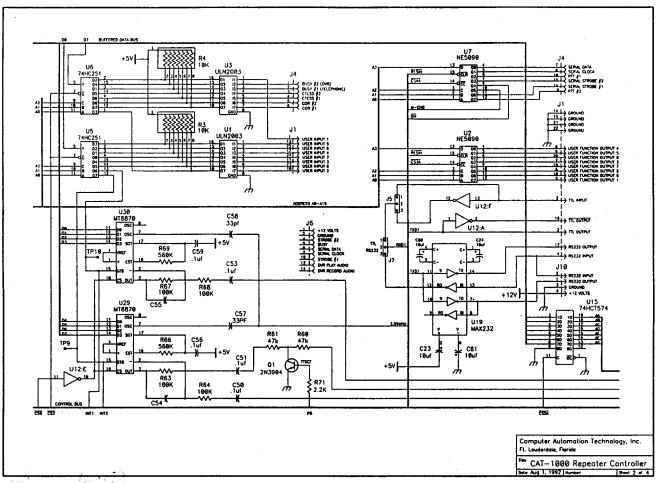


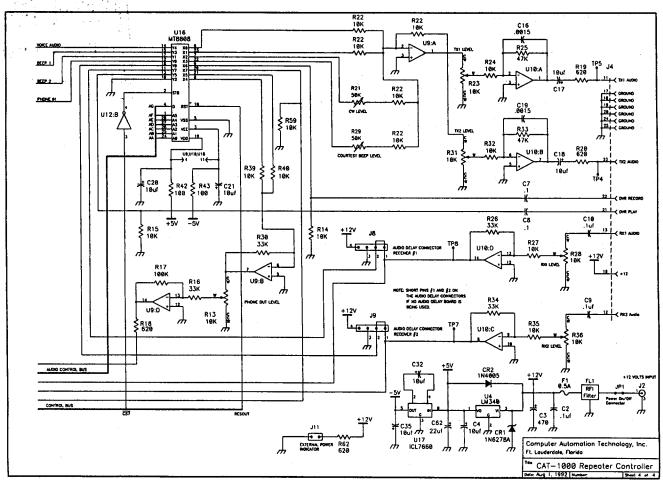
Voice Vocabulary Word List

Zero	Base	Failure	L	October	Security	Variable
One	Battery	Fahrenheit	Land	Of	Select	Verify
Two	Below	Fast	Last	Off	> Send	Version
	_					
Three	Between	February	Late	Ohms	Sent	Victor
Four	Bravo	Feet	Left	On	September	Volts
Five	Break	File	Less than	Open	Sequence	W
Six	Button	Filed	Let	Operation	Service	Wait
Seven	Ву	Final	Level	Operator	Set	Warning
Eight	C	Fire	Light	Or	Severe	Watch
Nine	Calibrate	Flag	Lima	Organization	Short	Watts
Ten	Call	Fog	Line	Oscar	Showers	Way
Eleven	Calling	For	Link	Other	Shut	Weather
Twelve	Cancel	Foxhunt	List	Out	Side	Wednesday
Thirteen	Cat	Foxtrot	Load	Over	Sierra	Week
Fourteen	Caution	Freezing	Lock	Overcast	Sleet	Weekday
Fifteen	Center		Lockout	P	Slow	
Sixteen		Frequency		P.M		Welcome
	Celsius	Friday	Long		Snow	Well Done
Seventeen	Change	From	Look	Papa	South	West
Eighteen	Charlie	Front	Low	Pass	Speed	What
Nineteen	Check	Full	Lower	Patch	Squawk	Whiskey
Twenty	Circuit	G	М	Per	Star	Will
Thirty	Clear	Gear	Machine	Phone	Start	Wind
Forty	Clock	Get	Macro	Pico	Stop	Windows
Fifty	Closed	Go	Make	Plan	Storm	With
Sixty	Club	Golf	Malfunction	Picase	Sunday	Wrong
Seventy	Code	Good	Manual	Plus	Switch	x
Eighty	Come	Green	Many	Point	System	X-Ray
Ninety	Complete	Ground	March	Police	S (plural)	Υ
A	Completed	Н	May	Position	T	Yankee
A.M	Computer	Hail	* .	Pound		Year
	•	Half	Mayday	_	Tango	
Abort	Condition		Ме	Power	Target	Yellow
About	Congratulations	Ham	Measure	Practice	Telephone	Yes
Above	Connect	Hamfest	Measured	Preset	Temperature	Yesterday
Acknowledge	Contact	Have	Meeting	Press	Terminal	You
Action	Control	Hazardous	Mega	Program	Test	Your
Adjust	Current	Heavy	Message	Pull	Than	Z
Advise	Cycle	Henry	Meter	Push	Thank-You	Zed
Aerial	D	Hertz	Meters	Put	That	Zerò
Affirmative	Danger	High	Micro	Q	The(shortE)	Zone
Again	Data	Hold	Mike	Quebec	The(longE)	Zulu
Air	Date	Home	Miles	R	Then	Pause 1
Alert	Day	Hotel	Milli	Radio	This	Pause 2
All	_ `	Hour	Million	Radios		
	Days				This-is	Pause 3
Alpha	December	Hours	Minus	Rain	Thousand	Pause 4
Alternate	Decrease	Hundred	Minute	Raise	Thunderstorms	Sound Effects
Altitude	Degree	I	Minutes	Range	Thursday	Chime 1
Amateur	Delay	Ice	Mobile	Rate	Time	Chime 2
Amps	Delta	Icing	Modified	Ready	Timer	Chime 3
An	Department	Identify	Monday	Receive	Today	Gunshot
And	Direction	Immediately	Month	Receiver	Tomorrow	Laser
Answer	Do	In	More than	Red	Tonight	Phaser
April	Down	Increase	Move	Release	Tornado	Tic
Are	Drizzle	India	Much	Remark	Tower	Тос
Area	Due	Information	N	Remote	Traffic	Laughter
As	Dynamic	Ing(suffix)	Near	Repair	Transmit	Female
Assistance	E	Inputs	Negative	Repeat	Transmitter	Good Morning
Association	East	Intruder	Net	Repeater	Тгу	Good Aternoon
At	Echo	Is	New	-		
				Reset	Tuesday	Good Evening
Attempt	Ed (suffix)	lt	Next	Rig	Turn	Time Variables
Attention	Emergency	J	Night	Right	Туре	Time of Day
August	End	January	No	Road	บ	Day of Week
Automatic	Enter	Juliet	Normal	Roger	Uniform	Day and Month
Autopatch	Equals	July	North	Romeo	Unit	Salutation
Auxiliary	Error	June	Not	Route	Unlimited	CW Identifier
Avenue	Evacuation	K	November	S	Until	CW ID Buffer #1
Average	Exit	Key	Now	Safe	Up	CW ID Buffer #2
В	Expect	Keypad	Number	Saturday	Use(noun)	DTMF Tones
Back	F	Kilo	O	Scattered	Use(verb)	DTMF Digit 0-D
Band	Fail	Knots	O'clock	Seconds	V	DISIL O'D
	***********				* *************************************	









Specifications

Microprocessor Memory EPROM Memory RAM

1024K

Voice Vocabulary User Speed Dial Emergency Speed Dial

Voice Nessages Digital Voice Recorder*

Schedular Macro

Memory Saves User Function Outputs Hardware Inputs Call Letter ID #1 Call Letter ID #2

Control & Prefix Codes Voice Synthesizer

DTMF Receiver Audio Input Audio Output Logic Inputs Logic Outputs

Operating Temperature

Power Size

Clock Accuracy

TM80C188EB-8

64K, (non volatile)

(425) Words

(300) Sixteen Digit Entry - Eleven Position ID Sixteen Digit Entry - Eleven Position ID Maximum Length (31) Words per Message (10)(40)

Tracks with two minute total record time (16)

Commands with one minute resolution (60)Macros with ten function per string (40)

Control functions, codes, timers, voice messages (8)

Switch 40 volts at 200 ma. (8) 10K ohm input impedance (8) Buffer size Voice (31) CW (64) Buffer size Voice (31) CW (32)

Buffer size (7)

Texas Instruments TSP53C30 Linear Predictive Coded

Mitel MT8870 (2)

Receiver (0.2 - 2VAC) adjustable 10K ohms Transmitter (0 - 2VAC) adjustable 600 ohms Low 0 to .8 volts High 2.4 to 15 volts Open Collector Relay Driver 40 volts at 200 ma.

-15 to +55 degrees C 9 to 15VDC at 150 mA

7.0" X 10.5"

+1 minute per month at +25 degrees C. In the absence of power, data

and time will be maintained for five years.

Ordering Information

CAT-1000 Repeater Controller Board, Wired & Tested \$679.00.

Detailed eighty page manual \$20.00. M-1000 (Included with Purchase of CAT-1000)

Serial Interface Card, Wired & Tested \$59.00. MF-1000

Editor Program, 5.25" DSDD Disk \$39.00 ED-1000

UPS Surface \$7.00 - UPS 2nd Day \$12.00 - UPS Next Day \$24.00 - C.O.D. \$5.00 SHIPPING (Continental United States)

Computer Automation Technology warrants this product to the original purchaser to WARRANTY be free from defective materials and workmanship for a period of (1) year from the date of purchase when returned prepaid.

Computer Automation Technology, Inc.

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