



Application Note

Wireless Text Messaging- MegaPower48

AN_0032

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1.0 General Description:

The MegPower48 is able to send one or more alphanumeric messages to a pager or cellular phone upon any alarm. Port 8 can be set for modem be connected from the DB9 connector on the patch panel to an external modem using the modem cable. It typically takes from 15 seconds to 1 minute from the time an alarm is triggered until the message is received by the pager or cell phone. The MegaPower48 will do a 3-times retry if the service provider's line is busy. The MegaPower 48 allows you to define up to 64 unique *Pager Profiles*. A profile consists of a *Phone Number* that is the access number for the text messaging service provider and a *Personal Identification Number* or PIN. There are 250 alarm messages that can be programmed for use as a pager message or an alarm title on the armed monitor. Also note that a video action must be defined and a monitor must be armed to enable the paging function.

2.0 Protocol:

There are two main paging protocols, TAP and UCP. The MegaPower48 only supports TAP. TAP is also known as IXO and TDP.

3.0 Modems:

The modem must support the Hayes AT command set. The modem is connected to the DB9 connector on port 8 of the MegaPower48 using a null modem cable. The modem is then connected to an analog phone line. Port 8 must be set to the particular modem settings of the paging/telecom provider. This may vary from one provider to another, but typically the settings are either 7,E,1,2400 baud or 8,N,1,2400 baud.

Many buildings have digital phone systems. To use the MegaPower 48 with a digital phone system, an analog/digital converter will be required. Examples of these devices are Line Stein and Linc Up Plus (BlackBox). LincUp Plus (MC120A) has been successfully tested.

A data compatible cellular phone may also be used as a wireless modem. The cell phone must support data transmission and requires the appropriate data connectivity kit. The service provider must also support this service. Set port 8 on the MegaPower 48 according to the information provided by the phone manufacturer.

4.0 Access Numbers:

Each telecommunications service provider will have its own modem access number or phone number. Many of these numbers are readily available on the WWW but there is no guarantee that the number will

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work. The best source would be the providers themselves. The access number is entered in the *Paging Profile* under *Phone Number*. Do not enter dashes (-) between the numbers. Also, any dial out codes must also be entered into the profile. For example, if you need to press 9 to dial out, then you would put 9, before the access number. The comma is a pause and is often required, sometimes more than 1 comma is required for proper dial-out.

4.1 How to get Access Numbers

The first way to get the modem access number is from the service provider's web site. This is typically in the *Support* section. If it is not available on the web-site, you will need to contact the service provider's Customer Service/Technical Support. The following are suggested questions to ask:

1. I'm trying to call my pager/cell phone via a computer/modem, what information can you give me to make this possible?
2. Do you support the "TAP" (Telocator Alphanumeric Protocol) protocol?
3. What is the access number for the "TAP" service?
4. What are the modem settings that I need to setup (i.e. baud rate, stop bit, etc.,)?

5.0 PIN numbers:

Personal Identification Numbers or PINs are provided by the paging service provider and are entered in the *Paging Profile* under *Personal Identification Numbers*. In the case of text messaging to a cell phone, the cell phone number is usually also the PIN.

6.0 Passwords:

Some providers may require a password to send a message. We have not tested any providers that require a password.

7.0 Glossary:

SMS	- Short Message Service
PCS	- Personal Communication Service
GSM	- Global System for Mobile communications
PIN	- Personal Identification
TAP	- Telocator Alphanumeric Protocol
UCP	- Universal Computer Protocol
MO	- Mobile Originated
MT	- Mobile Terminated

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8.0 Additional Applications

In general, it is recommended that Uninterruptible Power Supply (UPS) is used with the Matrix Switching System and other critical system components. There are UPS products available with relay outputs which provide status on the UPS, for example, UPS is on-battery (power loss), battery is low, etc. These dry contacts can be used as alarm inputs to the MegaPower 48, which could then send out the appropriate alarm message to the concerned parties. An example of this type of UPS is the Smart-UPS from APC with a Smart Slot I/O module.

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Appendix A:

This appendix contains lists of pager/telecom modem access numbers that have been found by searching the Internet. The links may not still be active. Also note, the numbers may have changed and most number are untested. The best source for a correct access number/modem setting would be your paging service/telecom provider.

Link: <http://www.woodstone.nu/saliv/PagerSettings.html>

Due to the large number of service providers we do not have the capability to test them all regularly. We can therefore not guarantee that all providers implement their services 100% according to the protocol's specification.

Service Name	Access Number	Modem Settings	Protocol	Password
Australia Link	61 738 326002	8,n,1	TAP	
Australia Telstra	61 180 18767	7,e,1	TAP	mnmail
Austria A1	43 669 14	7,e,1	TAP	
Austria AirPage	43 688 3322111	7,e,1	TAP	
Austria Callme	43 669 11	7,e,1	TAP	
Austria Callme Pro	43 666 + pager no	7,e,1	TAP	
Belgium Mobistar	0495 955205	8,n,1	UCP (30)	
Belgium Proximus	32 4751 61621	8,n,1	TAP	
Belgium Proximus	32 04751 61621	8,n,1	UCP (1 or 3)	proximus
Canada Bell Mobility (Toronto)	1 416 285 7267	7,e,1	TAP	
Canada Northern Communications (Toronto)	1 705 4971694	7,e,1	TAP	
Canada Telus	1 403 2532266	7,e,1	TAP	
Denmark TeleDenmark Mobil	43625250	8,n,1	UCP (30)	
Finland	209801	8,n,1	UCP (30)	
Germany D1 Alpha	49 171 2092522	8,n,1	TAP	
Germany D1 Alpha ISDN	49 171 2521001	8,n,1	TAP	
Germany E-Plus	49 177 1167	2400,7,e,1	TAP	
Germany TelMI	49 166 01010101	7,e,1	TAP	
Germany VIAG Interkom	49 179 7673425	8,n,1	TAP	
Iceland Landssimi Islands	9541010	8,n,1	TAP or UCP (30)	
Ireland Esat Digifone	353 86 8525352	8,n,1	TAP	
Netherlands PTT Telecom/KPN	31 653141414	8,n,1	UCP (30)	
New Zealand Telecom Paging	64 26 4001283	7,e,1	TAP	
Norway Netcom	47 920 00890	7,e,1	TAP	
Norway Telenor Mobil PS	47 968 90050	7,e,1	TAP	
Portugal TMN	9362113	8,n,1	UCP (30)	
Sweden Telstra	46 740930000	8,n,1	UCP (01)	
Switzerland NateID	41 79 4998990	8,n,1	UCP (30)	
Switzerland Telepage Private	41 74 0900003	7,e,1	TAP	
Switzerland Telepage Swiss	41 74 0900103	7,e,1	TAP	
Switzerland Swisscom	41 79 4998990	8,n,1	UCP (51)	

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UK BT EasyReach	44 0901 1130000	7,e,1	TAP	
UK BT Pager	44 0345 581354	7,e,1	TAP	
UK Cellnet	44 07860 980480	8,n,1	TAP	
UK Hutchison Paging	44 0941 100400	7,e,1	TAP	
UK One2One Mobiles	44 07958 879889	7,e,1	TAP	
UK One2One	44 07956 201072	8,n,1	TAP	
UK Orange Fleet	44 07973 100601	8,n,1	TAP	
UK PageOne	44 0640 900199	7,e,1	TAP	
UK PageOne Direct Access	44 01523 530300	7,e,1	TAP	1001
UK PageOne Direct Call	44 0991 910910	7,e,1	TAP	1001
UK PageOne MiniCall	44 0640 900139	7,e,1	TAP	HOMCPP
UK Vodafone Mobiles (TAP)	44 07785 499993	8,n,1	TAP	
UK Vodafone Paging	44 01459 106366	8,n,1	TAP	ACOA
UK VodaZap	44 07666 699699	8,n,1	TAP	
USA AirTouch	1 800 3260038	7,e,1	TAP	
USA ATT Wireless PCS	1 888 7583036	7,e,1	TAP	
USA Cellone	1 888 8787727	7,e,1	TAP	
USA MetroCall	1 800 9171168	7,e,1	TAP	
USA MobileComm	1 800 6556555	7,e,1	TAP	M
USA MobileComm	1 800 9464644	7,e,1	TAP	
USA Mobile Media	1 800 6225742	7,e,1	TAP	
USA NexTel	1 801 3016683	7,e,1	TAP	
USA Page New England	1 800 6488233	7,e,1	TAP	
USA PageMart	1 800 8649499	7,e,1	TAP	
USA PageNet	1 800 7208398	7,e,1	TAP	
USA Positive Communications (using NDC)	1 800-235-5614	7,e,1	TAP	
USA SkyTel	1 601 3600504	7,e,1	TAP	
USA SkyTel	1 800 7596366	7,e,1	TAP	
USA SkyTel	1-800-679-2778	7,e,1	TAP	8,N,1 also
USA Sprint PCS	1 888 6561727	7,e,1	TAP	
USA USA Mobile	1 800 5899776	7,e,1	TAP	
USA VoiceStream	1 800 9378941	8,n,1	TAP	

Link: <http://www.eatel.net/~omegabyte/public/phone-numbers.txt> (inactive on 5/25/01)

Note: Best choice for modem setting is 2400 baud, 7, E, 1 (call provider to confirm settings)

Paging Service IXO/TAP Phone Number

A Better Beep (Bakersfield, CA) 805-334-7002

A Better Beep (Fresno, CA) 209-778-9451

A Better Beep (San Luis Obispo, CA) 805-542-4050

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A Better Beep (Santa Barbara, CA) 805-730-3118
A Better Beep (Santa Rosa, CA) 707-523-6571
A Better Beep (Stockton, CA) 209-762-3094
A-Plus Communications (Alabama) 800-921-6625
AT&T Alphanumeric (Dallas, TX) 972-934-2797
AT&T Cell Phone Messaging 888-758-3036
AT&T Nationwide 800-724-7784
AT&T Nationwide II 800-720-8398
AT&T PCS Text Messaging (cell phone) 800-841-8837
AT&T Paging 801-596-9364
AT&T Wireless 800-368-4133
Advanced Paging (New Orleans, LA) 888-723-2337
AirTouch 800-326-0038
AirTouch (Albuquerque, NM) 505-883-1977
AirTouch (Dallas/Fort Worth, TX) 817-265-1845
AirTouch (Kansas City) 800-546-7243
AirTouch (Michigan) 800-371-8800
AirTouch (Michigan) 810-539-3917
AirTouch (Nation-Wide 2) 800-326-4724
AirTouch (Nation-Wide) 800-793-4549
AirTouch (Orlando, FL) 407-645-3103
AirTouch (Phoenix) 602-253-4297
AirTouch (San Deigo, CA) 619-576-1783
AirTouch (Sunnyvale, CA) 408-950-0572
AirTouch (Texas) 800-672-4371
AirTouch (Tucson, AZ) 520-622-3122
Alert 702-362-1748
AMC-Paging\Automated Message Center, Inc. 954.519.2099
American Pager 210-657-5562
American Pager 800-660-5747
American Paging 512-451-0777
American Paging (Arizona) 602-265-5203
American Paging (Arizona) 800-364-0816
American Paging (Orlando, Florida) 800-233-9977
American Paging (Washington, DC) 800-459-2033
American Paging (Wisconsin) 800-642-4152
Ameritech 314-841-8410
Ameritech (Madison, Wisconsin) 800-677-7454
Ameritech IL 708-563-0024
Ameritech (St. Louis, 300bps) 314-973-9739
Ameritech (St. Louis, 1200bps) 314-841-8410

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Ameritech (St. Louis) 618-325-3250
Arch Paging (Charlotte, NC) 800-741-2337
Arch Paging (Cleveland, OH) 216-464-3185
Arch Paging (Cleveland, OH) 216-591-0925
Arch Paging (Colorado Springs, CO) 800-490-1320
Arch Paging (Columbia, SC) 888-377-4231
Arch Paging (Greensboro, NC) 888-377-4229
Arch Paging (Greenville, SC) 888-377-4230
Arch Paging (Lafayette, LA) 318.232.6428
Arch Paging (Michigan) 800-613-1108
Arch Paging (Michigan) 2 800-613-1107
Arch Paging (Michigan) 3 800-613-5712
Arch Paging (Raleigh, NC) 888-377-4228
Arch Paging (Rochester, NY) 716-232-7324
Arch Paging (Seattle, WA) 800-695-6285
Arch Paging (St. Louis, MO) 800-294-9988
Arch Paging (St. Louis Metro, MO) 618-549-4685
Arch Paging (Western Mass. area, MA) 800-648-8233
Beep Call 888-624-6703
Beep One 800-864-1160
Beep One (Clemson, South Carolina) 800-864-0984
Bell Mobility (Canada) 416-285-7267
Bell Mobility (Montreal) 514.485.7948
Beta Tele-Page 800-409-6979
British Telecom +44 (0)345 581 354
Cantel (Canada) 306.691.5727
Cantel (Edmonton, Alberta) 403-990-1042
Cantel (Edmonton, Alberta) 800-387-8484
Cantel (Montreal, QC) 514-862-0630
Cantel (Sherbrook, QC) 204-229-0141
Cantel (Winnipeg, MB) 819-572-1847
CalPage Nationwide 800-258-9880
Cellular One PCS 800-477-4550
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ComTech 800-755-4585
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Lehigh Valley Page 800-873-2433
LA Cellular (Los Angeles, CA) 800-807-7274
MAP (Southern California) 800-456-2190
MCI Page 800-555-0909
Maximum 800-589-3860
Metrocall 800-926-7272
Metrocall 917-895-5376
Metrocall Nation-wide LA Term 324 800-418-8283
Metrocall Nation-wide Term 327 619-331-4950
MetroCall (Alexandria, VA) 800-245-0004
MetroCall (Massachusetts) 617-362-6600
MetroCall (New Jersey) 800-917-1168
MetroCall (Roanoke, VA) 800-898-7247
MetroCall (San Diego, CA) 619-331-0041
MetroCall (San Francisco, CA) 800-971-7919
MetroCall (Southern California) 800-347-7243
MetroCall (Washington, DC) 800-971-5088
Mobile Media 800-622-5742
Mobile Media (Florida) 800-872-6755
Mobile Media (North Carolina) 800-365-2689
Mobile Media (Washington, DC) 800-328-7587
MobileComm 800-946-4644
MobileComm (Alabama) 800-848-8436
MobileComm (Boston) 800-287-0143
MobileComm (Charleston, South Carolina) 800-277-1266
MobileComm (DC) 800-328-7587
MobileComm (Huntsville, AL) 800-239-7817
MobileComm (Long Island, New York) 800-657-2487
MobileComm (Michigan) 800-837-5101
MobileComm (Northern California) 800-655-6555
MobileComm (Northern California) 916-444-6383
MobileComm (Richmond, VA) 804-270-2271
MobileComm (Santa Barbara, CA) 805-564-6049
MobileComm (Texas) 800-435-3582
MobileComm (Texas) 2 800-344-2270
MobileComm (Washington / Oregon) 800-734-0096
MobileComm BSE (Michigan) 800-837-1202
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PageNet Atlanta, GA 404-722-2000
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PageNet Austin, TX 512-476-2893
PageNet Bakersfield, CA 805-336-4716
PageNet Baltimore, MD 410-356-0613
PageNet Barstow, CA 760-957-2000
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PageNet Buffalo, NY 716-633-2568
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PageNet Burbank, CA 818-846-6326
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PageNet Greenville, SC 864-217-0000
PageNet Greenville, SC 864-964-3500
PageNet Hartford, CT 860-948-2000
PageNet Hayward, CA 510-920-1100
PageNet Hemet, CA 909-617-0000
PageNet Houston, TX 281-480-9814
PageNet Houston, TX 713-781-8152
PageNet Houston, TX 713-781-8163
PageNet Huntsville, AL 205-860-0000
PageNet Indiana 800-838-6138
PageNet Indianapolis, IN 317-575-6138
PageNet Irvine, CA 714-451-7144
PageNet Jacksonville, FL 904-363-2103
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PageNet Kansas City, KS 913-541-0386
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PageNet Knoxville, TN 423-301-9998
PageNet Knoxville, TN 423-301-9999
PageNet Knoxville, TN 615-303-9999
PageNet Las Vegas, NV 702-661-7243
PageNet Las Vegas, NV 702-732-1957
PageNet Lexington, KY 606-532-9999
PageNet Long Beach, CA 310-327-5450
PageNet Long Island, NY 516-745-0055
PageNet Los Alamitos, CA 562-744-6300
PageNet Los Angeles, CA 213-303-9372
PageNet Los Angeles, CA 213-750-0450
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