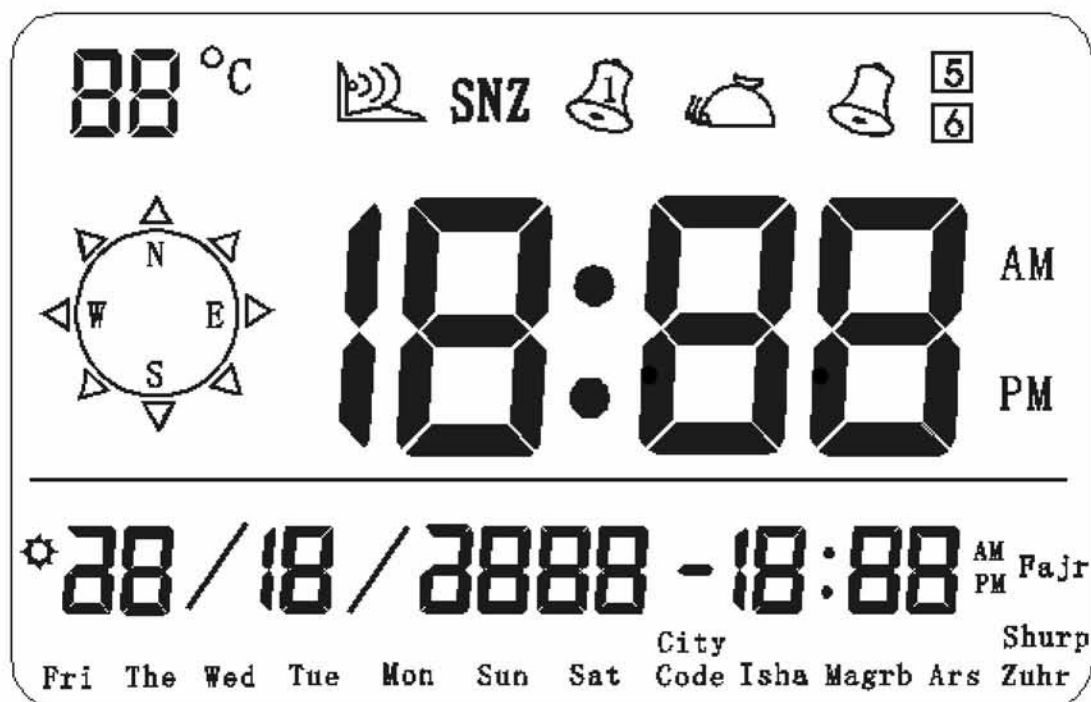


按键式祈祷钟

全显图



一、功能说明

1. 10 键操作控制
2. 按键大致如下
 - ① STOP/LIGHT 键，兼退出功能，既在任一状态下都可一键返回到正常显示状态。
 - ② SET 为设置键 UP 为上调键 DOWN 为下调键
 - ③ MODE 键循环调整过程：时间调整状态→1 天闹铃调整状态→FAJAR 闹铃调整状态→5 天 6 天 7 天闹铃调整状态→祈祷时间修正调整状态→联盟时间调整状态 →正常时间显示状态
 - ④ CITY 键 默认为 0-1，点按后为 0-1 闪动 调整（255 个城市）。
 - ⑤ FAJR ALARM, DAILY ALARM, SNOOZE, AZAN SOUND 等功能由 4 个按键单独控制，点按打开/关闭。
 - ⑥ 组合键：按 UP + DOWN 进入 AZAN 播放
 - ⑦ 长按 MODE 键进入计数器，秒表功能。
 - ⑧ 收音机控制：
 - 1,共用一个 AZAN SOUND 按键控制收音机打开/关闭,当收音机打开时屏幕 12:00 位显示 F:nn 提示,1 分钟后返回时间显示状态.
 - 2,有一邦定选择:需要收音机时为 OFF/AZAN SOUND/ AZAN SOUND+RADIO(收音机打开).不需要收音机时为 OFF/AZAN SOUND.
 - 3,当收音机工作状态时,AZAN 时间到后自动切换播放 AZAN,AZAN 结束后又自动切换回收音机工作状态.
 - 4,控制端口的方式同 COM5 一样用来控制收音机的电源开/关.

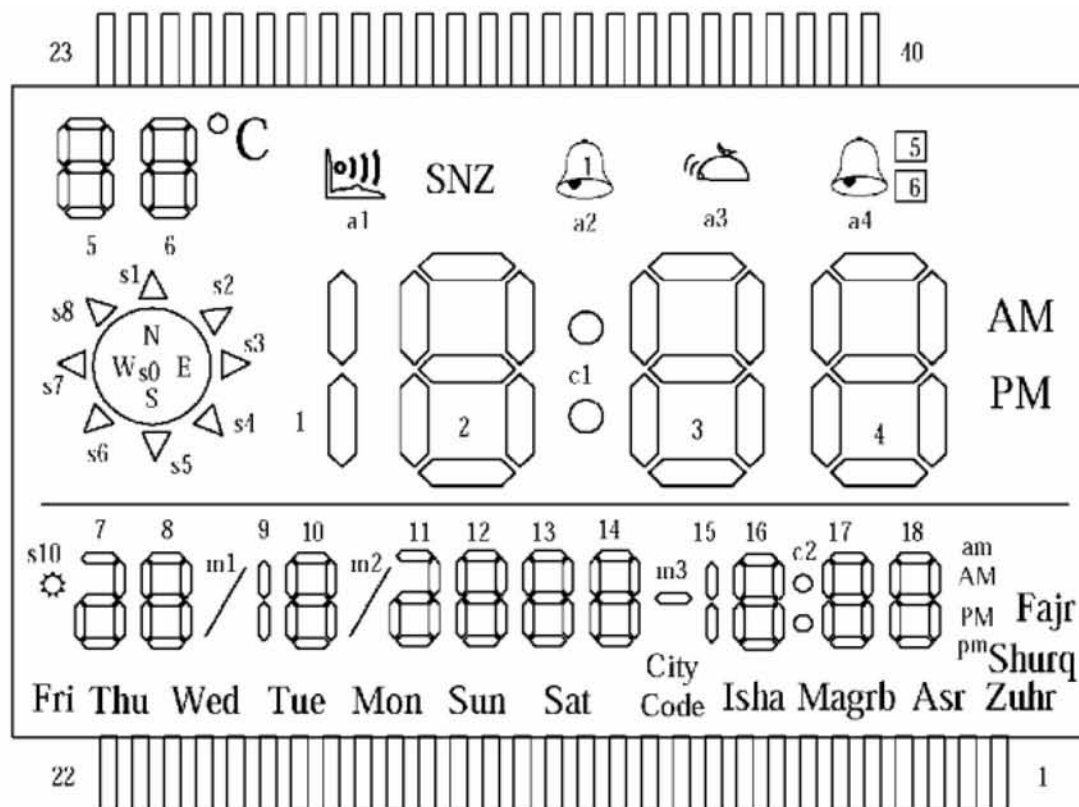
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5、当收音机开启或 AZAN 声音响时，那个 AZAN 的图标闪动

二、LCD 图

LCD 参数: 3V 1/4DUTY, 1/3BIAS



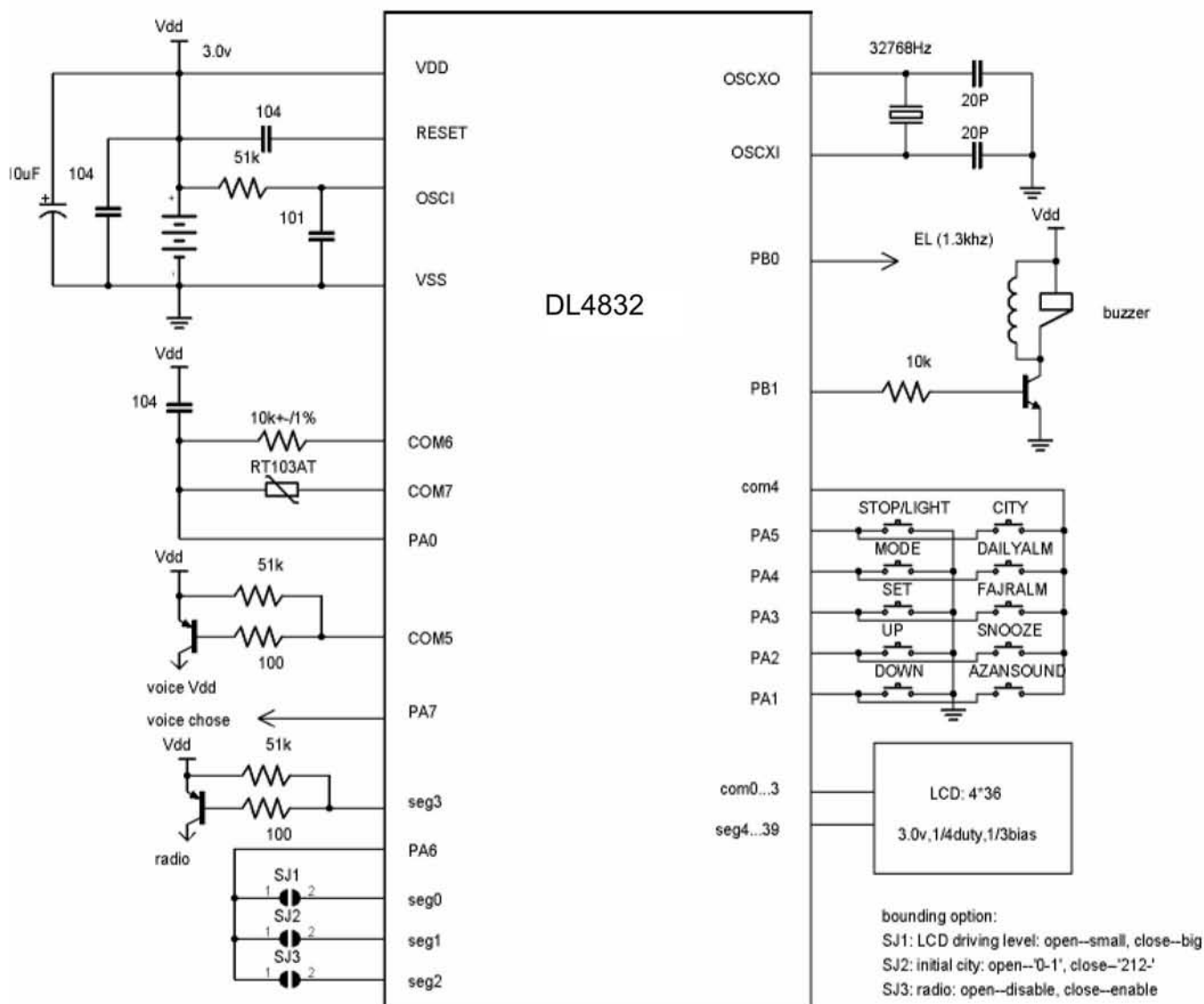
LCD	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
IC	C0	C1	C2	C3	S4	S6	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17	S18	S19
C3				C3	Isha	18d	Asr	17d	Zuhr	Shurp	16d	Fajr	14d	14d	13d	Fri	12d	The	Wed	10d
C2			C2		Magrb	18c	18e	17c	17e	16c	16e	14e	14g	13c	13e	12c	12e	11c	10c	10e
C1		C1			PM	18g	18f	17g	c2	16g	16f	14b	14f	13g	13f	12g	12f	11agdc	10g	10f
C0	C0				18b	18a	17b	17a	17a	16b	16a	15bc	14a	13b	13a	12b	12a	11b	10b	10a

LCD	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
IC	S20	S21	S22	S23	S24	S25	S26	S27	S28	S29	S30	S31	S32	S33	S34	S35	S36	S37	S38	S39
C3	Tue	8d	Mon	Sun	Sat	S1	City Code	S8	5	a4	a2	2a	3f	3a	4f	4a	5f	5a	6f	6a
C2	9bc	8c	8e	7c	--	S6	S2	S0	a1	6	2f	2b	3g	3b	4g	4b	5g	5b	6g	6b
C1	m3	8g	8f	7agdc	7e	S5	S7	--	SNZ	a3	2g	2c	3c	3c	4c	4c	5e	5c	6e	6c
C0	m1m2	8b	8a	7b	S10	S4	S3	°C		1bc	2c	2d	c1	3d	4d	am	PM	5d	6d	AM

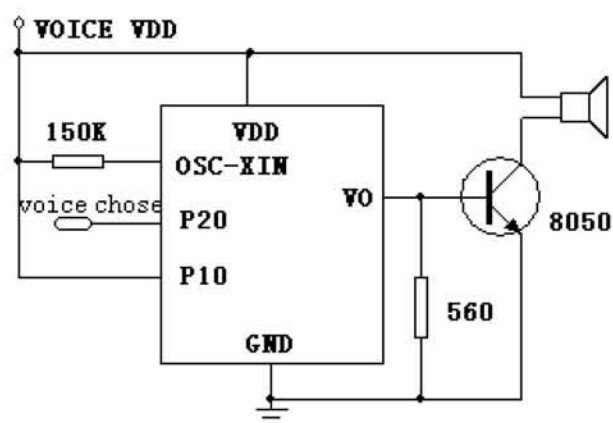
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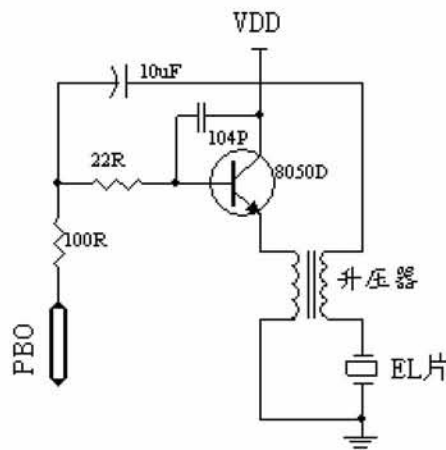
三、原理图



180 秒语音 IC 电路与 EL 片电路



P20-VDD: 播放全部
 P20 悬空: 播放部分

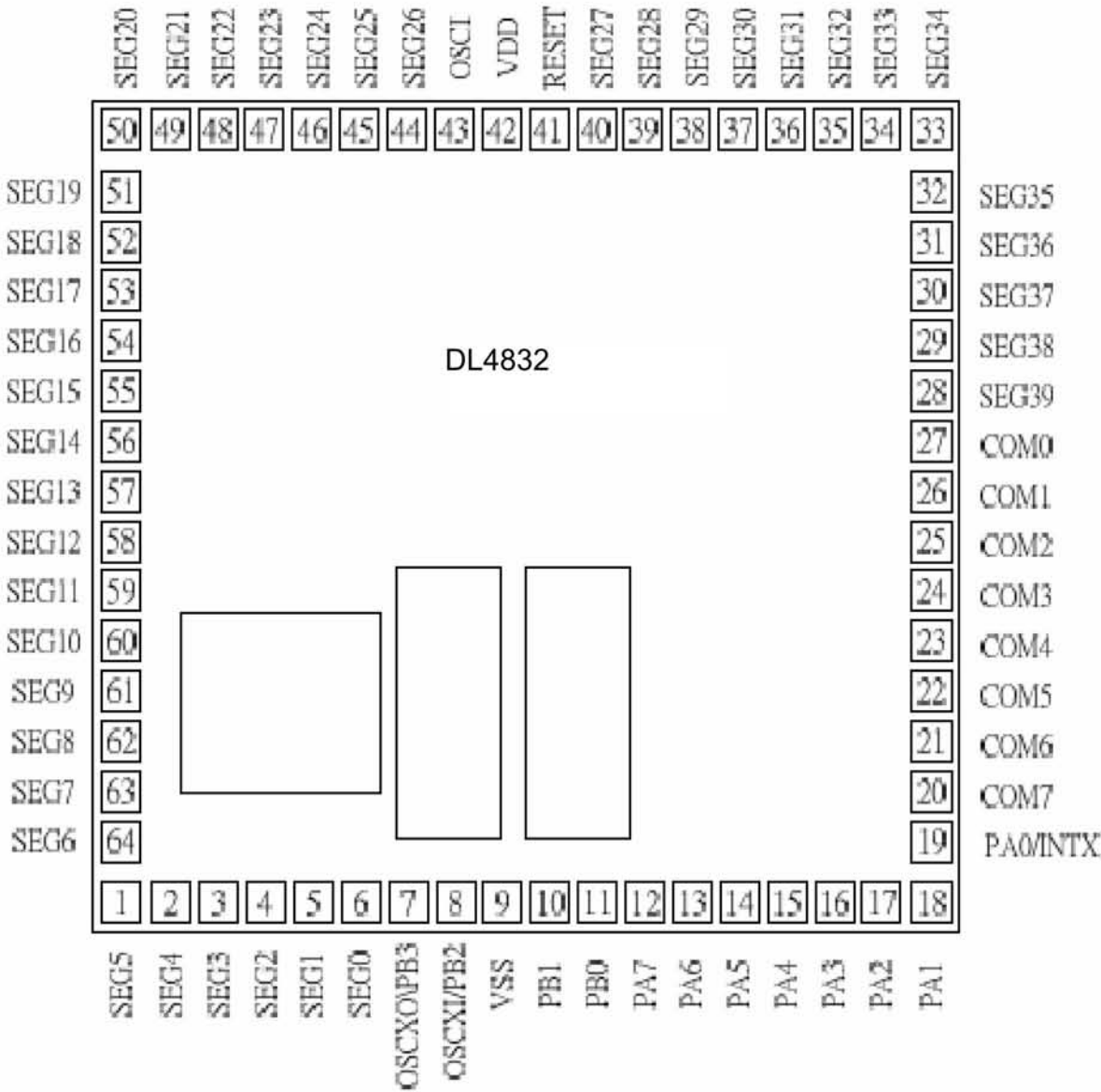


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四、PAD 图

MCU PAD 图



Chip Size: 2003 x 1820 μm

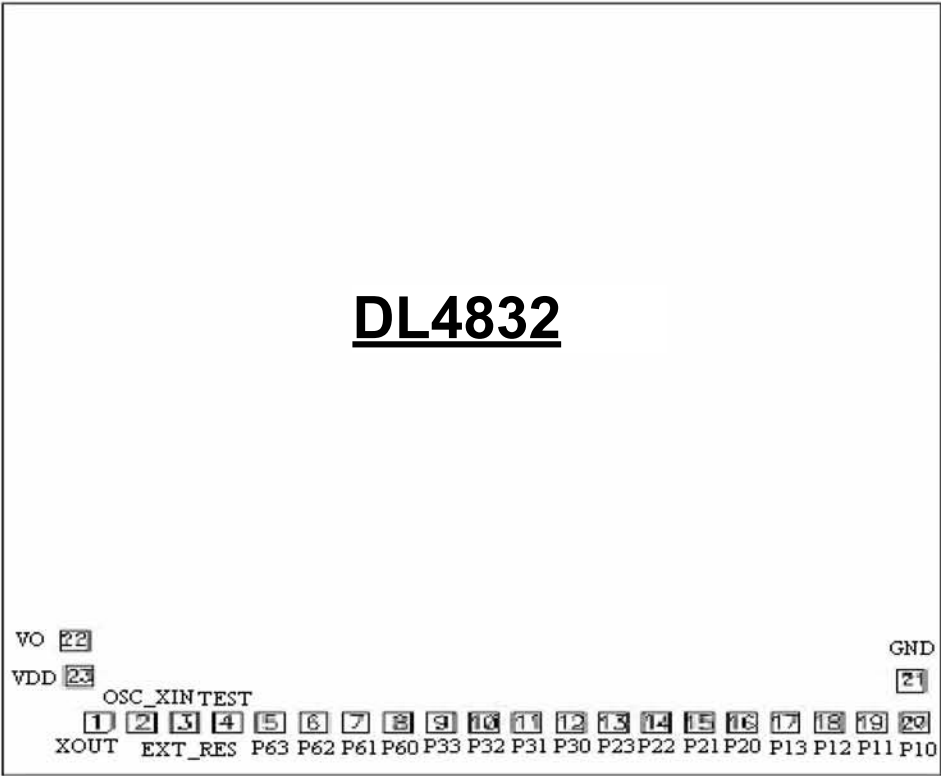
- The chip substrate should be connected with the VSS pin.

Unit: μm

180S 语音 IC PAD 图

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IC 衬底接 GND

五、城市对应表

	English-City	citycode	sub
1	ABHA	966	7
2	ABU DHABI	971	2
3	AD DAMMAM	966	3
4	ADANA	90	322
5	ADDIS ABABA	251	1
6	ADEN	967	2
7	Ahmedabad	91	272
8	Al Ain	971	3
9	Al Bahah	966	77
10	AL BASRAH	964	40
11	AL FUJAIRAH	971	9
12	AL KHARTUM	249	11
13	Albuquerque	1	505
14	Aleppo	963	21
15	ALEXANDRIA	20	3
16	Algeria	213	2
17	Alkhalah	970	2
18	Almaty	7	327
19	Alor Setar	60	4

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按键式祈祷钟

20	ALQUDS (JERUSALEM)	0	3
21	AMMAN	962	6
22	AMSTERDAM	31	20
23	ANKARA	90	312
24	ANNABA	213	8
25	ATHENS	30	1
26	ATLANTA_GA	1	404
27	AUCKLAND	64	9
28	az Zarqa	962	9
29	BAGHDAD	964	1
30	BAKU	994	12
31	Baltimore	1	301
32	BandarSeri Begawan	673	2
33	BANDUNG	62	22
34	Bangalore	91	80
35	BANGKOK	66	2
36	BARCELONA	34	3
37	BEIJING	86	1
38	BEIRUT	961	1
39	BELGRADE	381	11
40	BENGHAZI	218	61
41	BERLIN	49	30
42	Birmingham	1	205
43	BIRMINGHAM	44	121
44	BOMBAY	91	22
45	BONN	49	228
46	Bordeaux	33	58
47	BOSTON_MA	1	617
48	Brisbane	61	7
49	BRISTOL	44	117
50	BRUSSELS	32	2
51	BUCHAREST	40	1
52	BUDAPEST	36	1
53	BUENOS AIRES	54	1
54	Buffalo	1	716
55	Buraydah	966	6
56	CAIRO	20	2
57	CALCUTTA	91	33
58	CALGARY	1	403
59	Calicut	91	495
60	CANBERRA	61	62
61	CANTON	86	20
62	CAPE TOWN	27	21

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按键式祈祷钟

63	CARACAS	58	2
64	CASABLANCA	212	0
65	Cebu	63	32
66	Charlotte	1	704
67	CHICAGO_IL	1	312
68	Cincinnati	1	513
69	CLEVELAND_OH	1	216
70	Cologne	49	221
71	COLOMBO	94	1
72	COLUMBIA_MO	1	803
73	COLUMBUS_GA	1	614
74	COPENHAGEN	45	1
75	Dallas	1	214
76	DAMASCUS	963	11
77	Dar es Salaam	255	51
78	Davao	63	82
79	DELHI	91	11
80	DENVER_CO	1	303
81	DES_MOINES_IA	1	515
82	DETROIT_MI	1	313
83	Dhaka	880	2
84	DOHA	974	0
85	DUBAI	971	4
86	DUBLIN	353	1
87	DURBAN	27	31
88	DUSHANBE	992	377
89	EDINBURGH	44	131
90	ESFAHAN	98	31
91	FRANKFURT	49	69
92	GAZA	970	7
93	GENEVA	41	22
94	GLASGOW	44	141
95	Haila	966	65
96	HAMBURG	49	40
97	HANOVER_NH	49	511
98	HARTFORD_CT	1	203
99	HELSINKI	358	9
100	HOMS	963	31
101	HONG KONG	852	0
102	HONOLULU_HI	1	808
103	HOUSTON_TX	1	713
104	Hufuf	966	35
105	HYDERABAD	91	40

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106	INDIANAPOLIS_IN	1	317
107	IPOH	60	5
108	IRBID	962	2
109	ISLAMABAD	92	51
110	ISTANBUL	90	212
111	IZMIR	90	232
112	JACKSON_MS	1	601
113	JACKSONVILLE_FL	1	904
114	JAKARTA	62	21
115	Jazan	966	73
116	JEDDAH	966	2
117	JERSEY CITY_NJ	1	201
118	JOHANNESBURG	27	11
119	Johor Bahru	60	7
120	KABUL	93	0
121	KANO	234	64
122	KANSAS_CITY_MO	1	816
123	KARACHI	92	21
124	KATHMANDU	977	0
125	KIEV	380	44
126	KINSHASSA	243	0
127	KOTA BAHRU	60	97
128	KOTA KINABALU	60	88
129	KUALA LUMPUR	60	3
130	Kuala Terengganu	60	9
131	Kuantan	60	95
132	KUCHING	60	82
133	KUWAIT	965	0
134	LAGOS	234	1
135	LAHORE	92	42
136	Leeds	44	113
137	Leicester	44	116
138	LISBON	351	1
139	LITTLE ROCK_AR	1	501
140	LIVERPOOL	44	151
141	LONDON	44	207
142	LOS ANGELES_CA	1	213
143	LOUISVILLE_KY	1	502
144	LUCKNOW	91	522
145	LUXEMBOURG	352	0
146	LYON	33	7
147	MADINAH	0	2
148	Madras	91	44

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149	MADRID	34	1
150	Malacca	60	6
151	Malaga	34	52
152	MANAMA	973	0
153	MANCHESTER	44	161
154	MANILA	63	2
155	MARRAKECH	212	4
156	MARSEILLE	33	91
157	Mashhad	98	51
158	MECCA	0	1
159	MEDAN	62	61
160	MELBOURNE	61	3
161	Memphis	1	901
162	MEXICO CITY	52	5
163	MIAMI_FL	1	305
164	MILAN	39	2
165	MILWAUKEE_WI	1	414
166	MINNEAPOLIS_MN	1	612
167	Minsk	375	17
168	MONTREAL	1	514
169	MOSCOW	7	95
170	Mosul	964	60
171	Mukalla	967	5
172	Munich	49	89
173	MUSCAT	968	0
174	NAIROBI	254	2
175	NAPLES_FL	39	81
176	NASHVILLE_TN	1	615
177	NEW ORLEANS_LA	1	504
178	NEW YORK_NY	1	212
179	Nicosia	357	2
180	NORFOLK_VA	1	804
181	Nottingham	44	115
182	NOUAKCHOTT	222	0
183	OKLAHOMA CITY_OK	1	405
184	OMAHA_NE	1	402
185	OSAKA	81	6
186	OSLO	47	2
187	OTTAWA	1	613
188	PADANG	62	751
189	PALEMBANG	62	711
190	PARIS	33	1
191	PERTH	61	9

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192	PHILADELPHIA_PA	1	215
193	PHOENIX_AZ	1	602
194	PITTSBURGH_PA	1	412
195	Port Elizabeth	27	41
196	PORTLAND_OR	1	503
197	PRAGUE	420	2
198	PROVIDENCE_RI	1	401
199	RABAT	212	7
200	Ras al Khaima	971	7
201	RIO DE JANEIRO	55	21
202	RIYADH	966	1
203	ROME	39	6
204	Rotterdam	31	10
205	Saint Louis	1	314
206	Saint Petersburg	7	812
207	SAKAKA	966	46
208	SALALA	968	2
209	Salt Lake City	1	801
210	SALZBURG	43	662
211	SAN DIEGO_CA	1	619
212	SAN FRANCISCO_CA	1	415
213	Sanaa	967	1
214	SANTIAGO	56	2
215	SAO PAULO	55	11
216	SARAJEVO	387	33
217	SEATTLE_WA	1	206
218	Semarang	62	241
219	SEOUL	82	2
220	SHANGHAI	86	21
221	SHARJAH	971	6
222	SHEFFIELD	44	114
223	SHIRAZ	98	71
224	SINGAPORE	65	0
225	SOFIA	359	2
226	Srinagar	91	194
227	STOCKHOLM	46	8
228	Stuttgart	49	711
229	SURABAYA	62	31
230	SYDNEY	61	2
231	Tabuk	966	4
232	TAIPEI	886	2
233	Tangier	212	9
234	Tblisi	995	883

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235	TEHRAN	98	21
236	TOKYO	81	3
237	TORONTO	1	416
238	TRIPOLI	218	21
239	TRIPOLI	961	6
240	TRIVANDRUM	91	471
241	TUNIS	216	1
242	TURIN	39	11
243	Ujungpandang	62	411
244	Urumqi	86	991
245	Valencia	34	6
246	VALLETTA	356	0
247	VANCOUVER	1	604
248	VIENNA	43	222
249	WARSAW	48	22
250	WASHINGTON_DC	1	202
251	WELLINGTON	64	4
252	WICHITA_KS	1	316
253	Yogyakarta	62	274
254	Zagreb	385	1
255	ZURICH	41	1