

GD77 .dat file Memory Map For Firmware 3.0.6

Offset	Function	bytes per entry	Number of entries
17620	Contacts	24	1024
1D620	Rx Groups	48	128
08010	Zones	48	250
01790	Scan Lists	88	64
03780	Channels (first 128)	56	128
B1B0	Channels (remainder)	56	896
01588	Emergency Systems	16	32

Contacts (24 bytes per entry)

Byte function

0-15 Name 1 byte per character. FF as fillers, all FFs if blank

16 ID BCD coded 1st and 2nd digits 00 if blank

17 ID BCD coded 3rd and 4th digits 00 if blank

18 ID BCD coded 5th and 6th digits 00 if blank

19 ID BCD coded 7th and 8th digits 00 if blank

20 Contact Type 0=Group 1=Private 2=AllCall

21 Contact Receive Tone 0=Off 1=On

22 Contact Ring Style 0-10

23 Unknown 'FF' for used contact '00' for blank entry

Rx Groups (48 bytes per entry)

First 128 bytes is a byte array containing the number of members+1 in each of the 16 receive groups

00=Group invalid. 01=active but no members 02=1 member.....

Followed by 128 RX Groups.

Byte function

0-15 Name 1 byte per character. 00 as fillers, all 00s if blank

16 Low byte of Contact Index (01 is first contact. 00 is unused)

17 High Byte of Contact Index

18-47 Index numbers of remaining Contacts (up to 16 entries 2 bytes per entry)

Zones (48 Bytes per Entry)

First 32 bytes are a bit array indicating the active zones. 0=inactive 1=active

Followed by 250 zones.

Byte function

0-15 Name 1 byte per character. FF as fillers, all 00s if blank

16 Low byte of channel Index (First Channel is 01. 00 if unused)

17 High byte of channel Index

18-47 Remaining Channels up to (16 entries 2 bytes per entry)

Scan Lists

Byte function

First 64 bytes are byte array 00= unused 01=active

Followed by

0-14 Name 1 byte per character. FF as fillers, all FFs if blank

15 Flags. Talkback/PL1/PL2/Channelmark/0/0/0/0

16-79 Channel Indexes. 2 bytes per channel. Low High. 00= empty 01=current chan 02=channel1

80 Priority 1 channel 2 bytes

82 Priority 2 Channel 2 bytes

84 Transmit channel 2 bytes 00=last 01=selected 02=chan.

86 Signalling hold time 25ms increments

87 Priority Sample Time 250ms increments

Channels (56 Bytes per Entry)

Arranged in banks of 128 channels. The first 16 bytes of each bank is a bit array indicating the active channels. 1=active 0=inactive.

Followed by 128 channels...

Byte function

- 0-15 Name 1 byte per character. FF as fillers, all 00s if blank
- 16 Rx Frequency BCD 100Hz and 10 Hz digits
- 17 Rx Frequency BCD 10KHz and 1KHz digits
- 18 Rx Frequency BCD 1MHz and 100KHz digits
- 19 Rx Frequency BCD 100MHz and 10MHz digits
- 20 Tx Frequency BCD 100Hz and 10 Hz digits
- 21 Tx Frequency BCD 10KHz and 1KHz digits
- 22 Tx Frequency BCD 1MHz and 100KHz digits
- 23 Tx Frequency BCD 100MHz and 10MHz digits
- 24 Channel Type 00=Digital 01=Analogue
- 25 Unknown 00
- 26 Unknown 00
- 27 TOT 00=infinite 01=15Secs --- 21=495 Secs (15 second Increments)
- 28 TOT Rekey Time 0-255 Secs
- 29 Admit Criteria 00=always 01= Ch Free 02=Color Code Free
- 30 Unknown 0x50
- 31 Scanlist Index
- 32 RX CTCSS BCD Coded 1Hz and .1 Hz digits FF = off
- 33 RX CTCSS BCD Coded 100Hz and 10Hz digits FF = off DCS uses top 2 bits
- 34 TX CTCSS BCD Coded 1Hz and .1 Hz digits FF = off
- 35 TX CTCSS BCD Coded 100Hz and 10Hz digits FF = off DCS uses top 2 bits
- 36 Unknown 00
- 37 TX Signaling system
- 38 Unknown 00
- 39 RX Signaling system
- 40 Unknown 0x16
- 41 Privacy group
- 42 Color Code 00-0F
- 43 Rx Group Index
- 44 Color Code 00-0F (duplicate of 42? maybe TX and RX?)
- 45 Emergency System Index
- 46 Contact Index
- 47 Unknown 00 (high byte of contact?)
- 48 Flags 1 See later
- 49 Flags 2 See later
- 50 Flags 3 See later
- 51 Flags 4 See later
- 52 Unknown 00
- 53 Unknown 00
- 54 Unknown 00
- 55 Unknown 00

	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Flags 1 (48)	Data call Conf	Emerg Ack					ARTS RX	ARTS TX
Flags 2 (49)		Timeslot		Privatancy On				Private Call Cf
Flags 3 (50)	STE 180 degs	STE 120 degs	Non STE FRQ		PTTID Post	PTTID Front		DCDM
Flags 4 (51)	Hi Power	Vox on	Auto Scan	Lone worker	Allow T/A	Rx Only	25Khz	Tight SQL

