

## 1) Tuner Programming

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There are some flavors of Tuner programming APIs.  
These differ mainly by the bandswitch byte.

```

L= LG_API      (VHF_LO=0x01, VHF_HI=0x02, UHF=0x08, radio=0x04)
P= PHILIPS_API (VHF_LO=0xA0, VHF_HI=0x90, UHF=0x30, radio=0x04)
T= TEMIC_API   (VHF_LO=0x02, VHF_HI=0x04, UHF=0x01)
A= ALPS_API    (VHF_LO=0x14, VHF_HI=0x12, UHF=0x11)
M= PHILIPS_MK3 (VHF_LO=0x01, VHF_HI=0x02, UHF=0x04, radio=0x19)

```

## 2) Tuner Manufacturers

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SAMSUNG Tuner identification: (e.g. TCPM9091PD27)

TCP [ABCJLMNQ] 90[89][125] [DP] [ACD] 27 [ABCD]

[ABCJLMNQ]:

A= BG+DK

B= BG

C= I+DK

J= NTSC-Japan

L= Secam LL

M= BG+I+DK

N= NTSC

Q= BG+I+DK+LL

[89]: ?

[125]:

2: No FM

5: With FM

[DP]:

D= NTSC

P= PAL

[ACD]:

A= F-connector

C= Phono connector

D= Din Jack

[ABCD]:

3-wire/I2C tuning, 2-band/3-band

These Tuners are PHILIPS\_API compatible.

Philips Tuner identification: (e.g. FM1216MF)

F[IRMQ]12[1345]6{MF|ME|MP}

F[IRMQ]:

FI12x6: Tuner Series

FR12x6: Tuner + Radio IF

FM12x6: Tuner + FM

FQ12x6: special

FMR12x6: special

TD15xx: Digital Tuner ATSC

12[1345]6:

1216: PAL BG

1236: NTSC

1246: PAL I

1256: Pal DK

{MF|ME|MP}

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MF: BG LL w/ Secam (Multi France)

ME: BG DK I LL (Multi Europe)

MP: BG DK I (Multi PAL)

MR: BG DK M (?)

MG: BG DK I M (?)

MK2 series PHILIPS\_API, most tuners are compatible to this one !

MK3 series introduced in 2002 w/ PHILIPS\_MK3\_API

Temic Tuner identification: (.e.g 4006FH5)

4[01][0136][269]F[HYNR]5

40x2: Tuner (5V/33V), TEMIC\_API.

40x6: Tuner 5V

41xx: Tuner compact

40x9: Tuner+FM compact

[0136]

xx0x: PAL BG

xx1x: Pal DK, Secam LL

xx3x: NTSC

xx6x: PAL I

F[HYNR]5

FH5: Pal BG

FY5: others

FN5: multistandard

FR5: w/ FM radio

3X xxxx: order number with specific connector

Note: Only 40x2 series has TEMIC\_API, all newer tuners have PHILIPS\_API.

LG Innotek Tuner:

TPI8NSR11 : NTSC J/M (TPI8NSR01 w/FM) (P, 210/497)

TPI8PSB11 : PAL B/G (TPI8PSB01 w/FM) (P, 170/450)

TAPC-I701 : PAL I (TAPC-I001 w/FM) (P, 170/450)

TPI8PSB12 : PAL D/K+B/G (TPI8PSB02 w/FM) (P, 170/450)

TAPC-H701P: NTSC JP (TAPC-H001P w/FM) (L, 170/450)

TAPC-G701P: PAL B/G (TAPC-G001P w/FM) (L, 170/450)

TAPC-W701P: PAL I (TAPC-W001P w/FM) (L, 170/450)

TAPC-Q703P: PAL D/K (TAPC-Q001P w/FM) (L, 170/450)

TAPC-Q704P: PAL D/K+I (L, 170/450)

TAPC-G702P: PAL D/K+B/G (L, 170/450)

TADC-H002F: NTSC (L, 175/410?; 2-B, C-W+11, W+12-69)

TADC-M201D: PAL D/K+B/G+I (L, 143/425) (sound control at I2C address 0xc8)

TADC-T003F: NTSC Taiwan (L, 175/410?; 2-B, C-W+11, W+12-69)

Suffix:

P= Standard phono female socket

D= IEC female socket

F= F-connector

Other Tuners:

TCL2002MB-1 : PAL BG + DK =TUNER\_LG\_PAL\_NEW\_TAPC

TCL2002MB-1F: PAL BG + DK w/FM =PHILIPS\_PAL

TCL2002MI-2 : PAL I = ??

ALPS Tuners:

Most are LG\_API compatible

TSCH6 has ALPS\_API (TSCH5 ?)

TSBE1 has extra API 05, 02, 08 Control\_byte=0xCB Source: (1)

Tuners..txt

Lit.

(1) conexant100029b-PCI-Decoder-ApplicationNote.pdf