

## MSM7718EVA

### User Instructions

#### GENERAL DESCRIPTION

This document describes how to set the MSM7718 evaluation kit for operation. The board is equipped with all circuitry necessary to drive the MSM7718 and helps the designer evaluate the LSI in each of its characteristics and functions. For details about device specification and functional description of MSM7718, please refer to the corresponding datasheet.

#### HOW TO...

##### 1. Evaluation Kit Content

- One evaluation board (for 100-pin TQFP)
- One power supply cable

##### 2. Evaluation Board Circuitry Diagram

- Two circuit diagrams
- A component layout diagram

##### 3. How to Use the Board

###### 3.1. Power Supply

Power should be supplied to the board via the enclosed power supply cable. The yellow and yellow (white) cables are for 3V, the red one is for 5V, the blue one is for -5V, and the black one is for GND.

###### 3.2. Oscillator

U6 in Component Layout should be equipped with an oscillator either at 19.2MHz or 9.6MHz (MCK). U14 in Component Layout should be equipped with an oscillator at 4MHz (BCLK, EXCK).

###### 3.3. Switches

SW1	ON	: to connect IS output and IR input
	OFF	: to disconnect IS output and IR input.
SW2	ON	: to connect PCMPCO out put and PCMLNI input
	OFF	: to disconnect PCMPCO out put and PCMLNI input
SW3	ON	: to connect PCMLNO out put and PCMPCI input
	OFF	: to disconnect PCMLNO out put and PCMPCI input
SW4	ON	: to connect PCMMACO out put and PCMADI input
	OFF	: to disconnect PCMMACO out put and PCMADI input
SW5	ON	: to connect PCMADO out put and PCMACI input
	OFF	: to disconnect PCMADO out put and PCMACI input

- SW6 A switch to alternate TSTI3 input signal
- SW7 A switch to alternate TSTI3 input signal
- SW8 A switch to alternate TSTI4 input signal
- SW9 PDNRST input signal switch. (The default is normally high.
- SW10 A switch to alternate TSTI2 input signal
- SW11 A switch to alternate TSTI1 input signal
- SW12 A switch for PDWN input signal switch .  
(The default is normally high. Only when this switch is pushed down, low level is given.)
- SW13 A switch to alternate VOXI input signal
- SW14 A switch to alternate MLV0 input signal
- SW15 A switch to alternate MLV1 input signal
- SW16 A switch to alternate MLV2 input signal
- SW17 A switch to alternate MUTE input signal
- SW18 A switch to alternate open/short with SYNCP
- SW19 A switch to alternate open/short with SYNCA
- SW20 A switch to alternate open/short with BCLKP
- SW21 A switch to alternate open/short with BCLKA
- SW22 A switch to alternate open/short with DEN
- SW23 A switch to alternate open/short with EXCK
- SW24 A switch to alternate open/short with DIN
- SW25 A switch to alternate open/short with DOUT

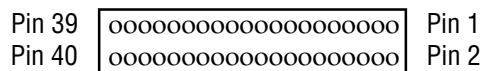
When SW18 - SW25 are open, external input is possible.

- SW26-SW31 A switch for frequency to BCLKP and BCKA  
 SW26 = 2MHz  
 SW27 = 1MHz  
 SW28 = 512KHz  
 SW29 = 256KHz  
 SW30 = 128KHz  
 SW31 = 64KHz

- SW32-SW46 Switches for MCU interface  
 SW32 A switch for settings for data write and data read. (R : Read / W : Write)  
 SW33-SW37 A switch for settings for control register address (A4-A0)  
 SW38-SW45 A data setting switch for writing into control registers. (D7-D0)  
 SW46 After you set all with SW32-SW45, a push on this botton will transmit the data as set.  
 When a reading si done, an LED light gets ON.

3.4. 40-pin Flat Cable

The board is equipped with a connector for a 40-pin flat cable to interface an external Flash ROM. The drawing below shows the correspondance with a 40- pin flat cable.



3.5. 20-pin Flat Cable

The board is equipped with a connector for 20-pin flat cable to interface an external MCU. The drawing below shows the correspondance with a 40-pin flat cable.

