Keyboard scanner

The keyboard scanner consists of a row driver and a column read back circuit.

The row driver controls the keyboard rows after a switch has been pressed.

The column read back circuit reads the columns after the level at a row driver output has been changed.

Refer also to Section 3.3.3. "MICROPROCESSOR circuitry, keyboard circuitry".

Boot circuit

The boot circuit controls the Microprocessor EAN line. Refer to Section 3.3.3 "MICROPROCESSOR circuitry, RESET circuit" for detailed information.

Odd/even selection

This circuit cares that data for the even LCD lines Y2...Y160, and data for the odd LCD lines Y1...Y159, are supplied to respectively D1404 and D1405.

M-Randomize (AB-MIX)

The M-Randomize part generates the LCD backplane modulation signal M1. This signal M1 is desynchronized from the other display control signals in order to prevent memory effects on the display. See also DISPLAY CONTROL SIGNALS.

BLOCK DIAGRAM M-ASIC ADVN **ADDRESS** A00..13 AD00..15 LATCH A14, MS0..4,BCEN, FCEN, MEMORY XSEL,BS_BUSW,FS_BUSW, AD00..08 XS_BUSW, IOSEL0..2, PS0..2, MANAGER AD15, UPREADY, RAMCS RDIN.WRIN INST, SYNCRDY OPTSELRAMSEL KEYBOARD SELECT ROW KEYBOARD **SCANNER** COLUMN RESETN воот EAN CIRCUIT UPRESETN LCD0ALCD1A LCD0..3 ODD/EVEN LCD2A.LCD4A **SELECTION** DTCLA DATACL LINECL AB-MIX (RANDOMIZER) ST7373

Figure 3.6 M-ASIC block diagram.