

# UPD78F1512AGC-GAD-AX

User's Manual: Hardware

Overview

Design Support

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Sample Code

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## PARAMETRICS

Parameters	UPD78F1512AGC-GAD-AX
<b>Package</b>	
Pin Count	80
Package Type	LQFP
<b>Memory</b>	
Program memory	128 KB Flash memory
RAM	7 KB
<b>CPU (Bit, Clock, DMA, External Bus etc)</b>	
CPU	78K0R (16-bit)
Max. Frequency	20 MHz
Sub-Clock (32.768 kHz)	YES
On-chip Oscillator Freq.	20, 8, 1 MHz
Power-On Reset	YES
Low Voltage Detection	YES
DMA Remarks	DMAC x 2 ch
External Interrupt Pins	8
I/O Ports	51
<b>Timers</b>	
16-bit Timers	12 ch
Watchdog Timers	1 ch
PWM Output	5
<b>Analog</b>	
A/D Converters	10-bit x 8 ch
<b>Interfaces</b>	
CSIs	2 ch
UARTs	3 ch
I2Cs	2 ch
LIN	1 ch
<b>Display Functions</b>	
LCD Remarks	seg=27, com=8
<b>Operating Conditions</b>	
Operating Voltage	1.8 to 5.5 V
Operating Temperature	-40 to 85 °C (Ambient Temperature)
<b>Remarks</b>	
Remarks	80-pin 16-bit single-chip microcontroller (78K0R/LF3)

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