

# UPD70F3529GMA-GBK-G

The V850E2/Dx4-H is 32-bit V850E2M-H core microcontroller for high-end and high performance automotive dashboard applications.

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## PARAMETRICS

Parameters	UPD70F3529GMA-GBK-G
<b>Package</b>	
Pin Count	176
Package Type	HLFQFP
<b>Memory</b>	
Program memory	2048 KB Flash memory
RAM	96 KB
Data Flash	32 KB
Cache Memory Remark	2 way associative (4 KB/way)
<b>CPU (Bit, Clock, DMA, External Bus etc)</b>	
CPU	V850E2M (32-bit)
Max. Frequency	80 MHz
Sub-Clock (32.768 kHz)	YES
On-chip Oscillator Freq.	240kHz/8MHz
PLL	YES
Real-Time Clock (RTC)	YES
Power-On Reset	YES
Low Voltage Detection	YES
DMA Remarks	DMAC x 8 ch
External Interrupt Pins	9
I/O Ports	127
<b>Timers</b>	
16-bit Timers	48 ch
32-bit Timers	4 ch
Watchdog Timers	2 ch
Other Timers	Timer for OS x 1 ch
PWM Output	45
<b>Analog</b>	

A/D Converters

10-bit x 12 ch, 12-bit x 12 ch

#### Interfaces

CAN 3 ch

CSIs 2 ch

SPIs 1 ch

UARTs 2 ch

I2Cs 2 ch

LIN 2 ch

Serial Interface Remarks I2S 1ch

#### Display Functions

High-resolution display controller Video Output 1ch

#### Operating Conditions

Operating Voltage 2.7 to 5.5 V

Power Supply For CPU core: 2.7 - 5.5 V, For I/O: 2.7 - 5.5V (For B0VDD: 2.7 - 3.6 V), For A/D: 2.7 - 5.5 V

Operating Temperature -40 to 85 °C (Ambient Temperature)

#### Remarks

Remarks Automotive 32-bit microcontroller (V850E2/DK4-H)

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