

UPD70F3523GJA-GAE-G

The V850E2/Dx4 is 32-bit V850E2M-M core microcontroller for automotive dashboard applications.

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PARAMETRICS

Parameters	UPD70F3523GJA-GAE-G
Package	
Pin Count	144
Package Type	LFQFP
Memory	
Program memory	512 KB Flash memory
RAM	48 KB
Data Flash	32 KB
Cache Memory Remark	2 way associative (4 KB/way)
CPU (Bit, Clock, DMA, External Bus etc)	
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, DTC
External Interrupt Pins	12
I/O Ports	105
Timers	
16-bit Timers	80 ch
32-bit Timers	12 ch
Watchdog Timers	2 ch
Other Timers	Timer for OS x 1 ch
PWM Output	69
Analog	
A/D Converters	10-bit x 16 ch, 12-bit x 16 ch
Interfaces	
CAN	3 ch
CSIs	3 ch
UARTs	2 ch
I2Cs	2 ch
LIN	2 ch
Display Functions	
Segment LCD controller/driver	414
LCD Remarks	69seg x 6com
High-resolution display controller	LCD Bus Interface 1ch
Operating Conditions	
Operating Voltage	2.7 to 5.5 V
Operating Temperature	-40 to 85 °C (Ambient Temperature)
Remarks	
Remarks	Automotive 32-bit microcontroller (V850E2/DJ4)

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