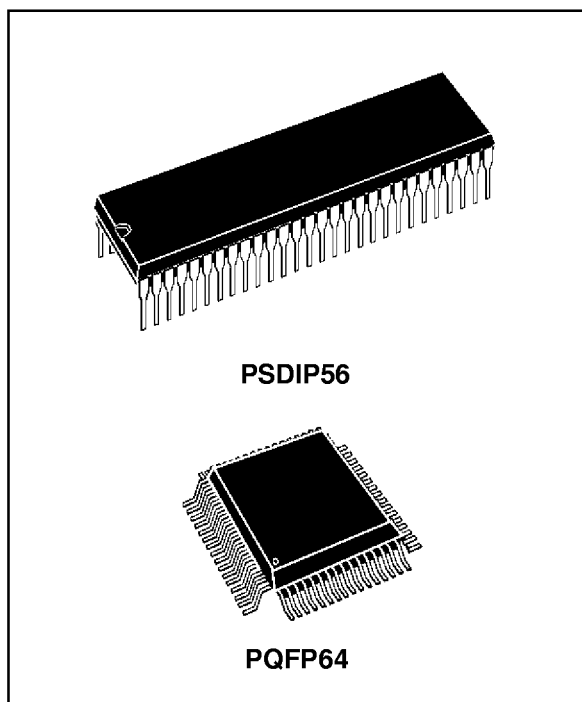


8-BIT MCU FOR MONITORS WITH 32-60K ROM, 1-2K RAM, ADC, TIMER, INFRA RED, USB, SYNC, PWM/BRM, DDC/DMA, I²C & SCI

PRODUCT PREVIEW

- User ROM: 32 or 60 Kbytes
- Data RAM: 1 or 2 Kbytes (256 bytes stack)
- 8 MHz Maximum Internal Clock Frequency in fast mode, 4 MHz in normal mode
- Run, Wait, Halt and RAM Retention Modes
- Sync Processor for Mode Recognition, power management and composite video blanking generator stage
- Low speed Universal Serial Bus (USB) for monitor function
- Fast I²C Multi Master Interface
- DDC Bus Interface fully compliant with DDC1, 2B, 2B+, 2AB, 2Bi standards
- Up to 32 I/O lines
- 8 Open Drain I/Os with high current capacity (10 mA) on port A
- 5 lines programmable as interrupt inputs
- 16-bit timer with 2 input captures and 1 output compare functions
- 8-bit Analog to Digital Converter with 8 channels on port B
- 8 10-bit PWM/BRM Digital to Analog outputs
- One 12-bit PWM/BRM Digital to Analog output
- Serial Communications Interface
- Infra red control
- Master Reset and Power on/off reset
- Programmable Watchdog for system reliability and integrity
- 56-pin Shrink Dual In line Plastic package or 64-pin Plastic Quad Flat Pack
- Fully static operation
- 0 to + 70 °C Operating Temperature Range
- 4.0V to 5.5V supply operating range
- 24 MHz Quartz Oscillator
- 74 basic instructions/17 main address modes
- 8x8 unsigned multiply instruction
- True bit manipulation
- Complete development support on Real-time emulator with PC/DOS
- Full software package (Cross Assembler, debugger, C compiler under Windows)



Device Summary

SDIP56	ST72771N9B1*	ST72771N6B1
PQFP64	ST72771R9Q1*	ST72771R6Q1
ROM	60K	32K
RAM	2K	1K
ADC	8 channels	8 channels
16-Bit Timer	1	1
I ² C Bus	one multimaster	one multimaster
DDC/DMA	Yes	Yes
Sync Processor	Yes	Yes
PWM	9	9
I/O	32	32
SCI	Yes	No
Infra-Red Control	Yes	Yes
USB	Yes	Yes
Emulating Device	ST72E771N9D	ST72E771N9D

*Contact marketing for availability.