64/80-Pin High-Performance Microcontrollers with nanoWatt Technology,Microcontrollers (MCU) 32KB Flash 2048bytes-RAM 51I/O

Images are for reference only

Manufacturers	Microchip Technology, Inc
Package/Case	TQFP-64
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	

Please submit RFQ for PIC18F65J11-I/PT or Email to us: sales@ovaga.com We will contact you in 12 hours.   RFQ

General Description

General Purpose PIC18 J-series Microcontroller providing 10 MIPS performance at 3V with 8MHz internal oscillator and lower sleep power than the 18F87J10 family. These devices are easily adapted for cost sensitive application such as data loggers, control panels, home security, car alarms, and seat controllers.

Features

CPU

Up to 10 MIPS Performance at 3V

C compiler optimized RISC architecture

8x8 Single Cycle Hardware Multiply

System

Internal oscillator support-31 kHz to 8MHz with 4xPLL

Fail-Safe Clock Monitor- allows safe shutdown if clock fails

Watchdog Timer with separate RC oscillator

Wide operating Voltage range; 2.0V to 5.5V

nanoWatt Power Managed Modes

Run, Idle and SLEEP modes

Analog Features

10-bit ADC, 12 channels, 100K samples per second

Programmable Low Voltage Detection Module

Programmable Brown-out-Reset Module
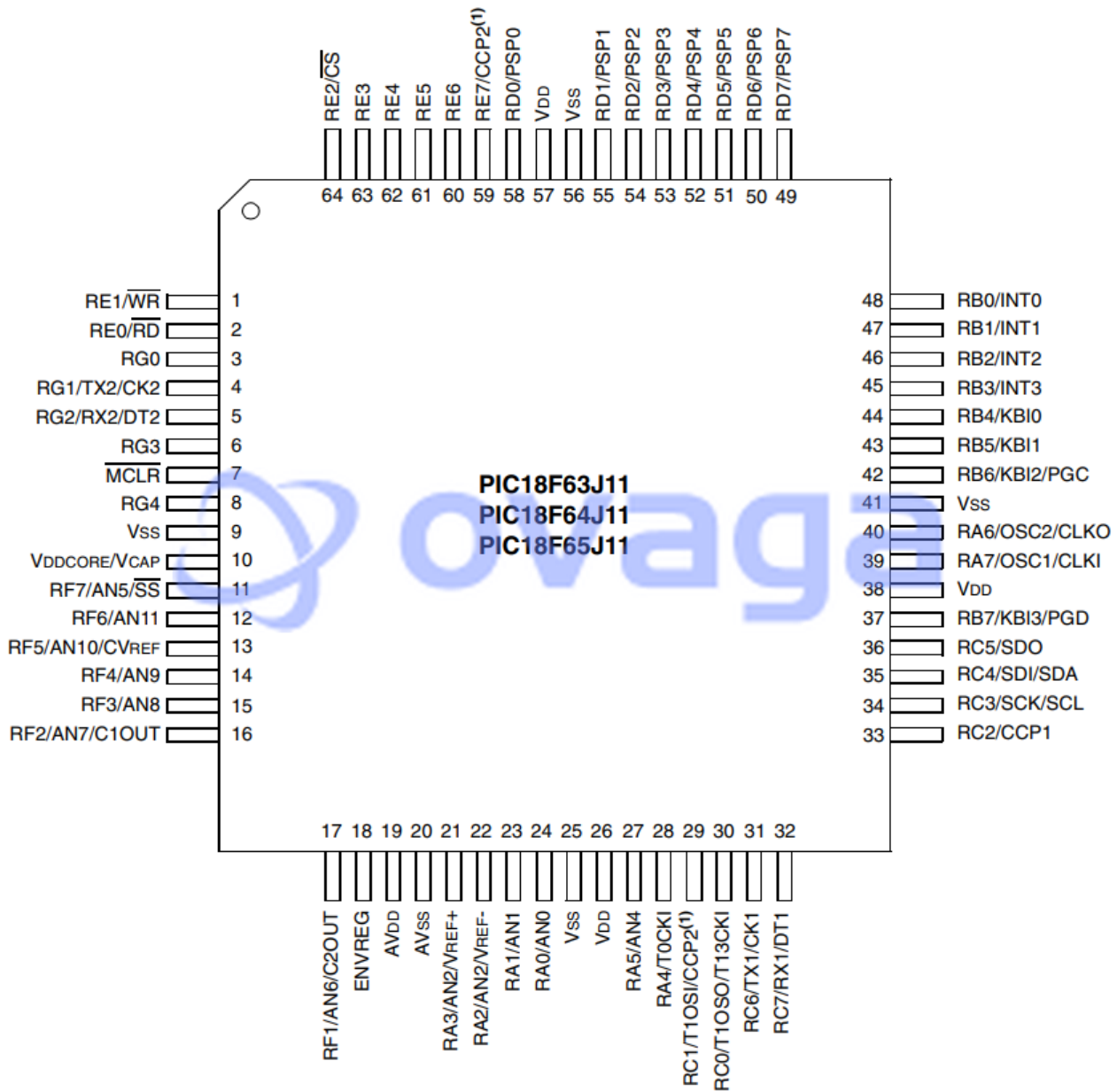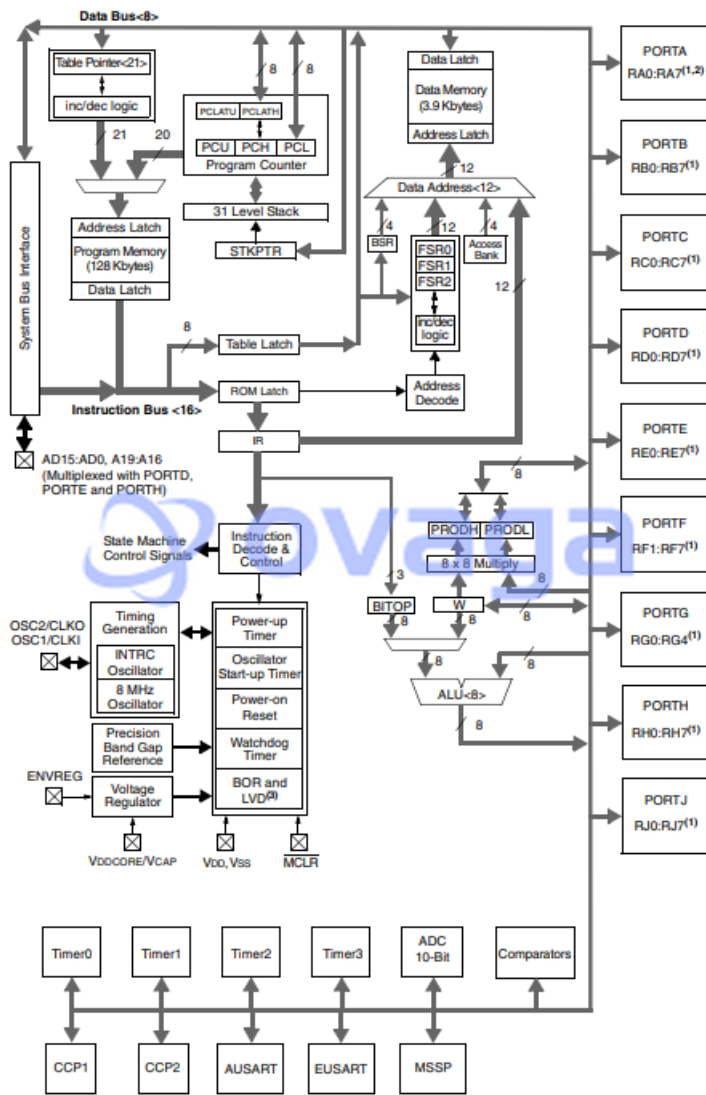
Two Analog Comparators

Peripherals

Master Synchronous Serial Port supports SPI™ and I2C™ master and slave mode
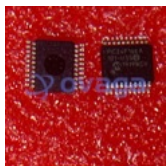
EUSART module including LIN bus support
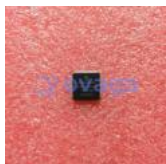
Four Timer modules

Two Capture Compare PWM modules

Pin diagram for PIC18F63J11, PIC18F64J11, PIC18F65J11 (64-pin TQFP package)

Top side pins (left to right, 64–49):
- 64 RE2/CS
- 63 RE3
- 62 RE4
- 61 RE5
- 60 RE6
- 59 RE7/CCP2(1)
- 58 RD0/PSP0
- 57 VDD
- 56 VSS
- 55 RD1/PSP1
- 54 RD2/PSP2
- 53 RD3/PSP3
- 52 RD4/PSP4
- 51 RD5/PSP5
- 50 RD6/PSP6
- 49 RD7/PSP7

Left side pins (1–16):
- 1 RE1/WR
- 2 RE0/RD
- 3 RG0
- 4 RG1/TX2/CK2
- 5 RG2/RX2/DT2
- 6 RG3
- 7 MCLR
- 8 RG4
- 9 VSS
- 10 VDDCORE/VCAP
- 11 RF7/AN5/SS
- 12 RF6/AN11
- 13 RF5/AN10/CVREF
- 14 RF4/AN9
- 15 RF3/AN8
- 16 RF2/AN7/C1OUT

Center labels:
PIC18F63J11
PIC18F64J11
PIC18F65J11

Right side pins (48–33):
- 48 RB0/INT0
- 47 RB1/INT1
- 46 RB2/INT2
- 45 RB3/INT3
- 44 RB4/KBI0
- 43 RB5/KBI1
- 42 RB6/KBI2/PGC
- 41 VSS
- 40 RA6/OSC2/CLKO
- 39 RA7/OSC1/CLKI
- 38 VDD
- 37 RB7/KBI3/PGD
- 36 RC5/SDO
- 35 RC4/SDI/SDA
- 34 RC3/SCK/SCL
- 33 RC2/CCP1

Bottom side pins (left to right, 17–32):
- 17 RF1/AN6/C2OUT
- 18 ENVREG
- 19 AVDD
- 20 AVSS
- 21 RA3/AN2/VREF+
- 22 RA2/AN2/VREF-
- 23 RA1/AN1
- 24 RA0/AN0
- 25 VSS
- 26 VDD
- 27 RA5/AN4
- 28 RA4/T0CKI
- 29 RC1/T1OSI/CCP2(1)
- 30 RC0/T1OSO/T13CKI
- 31 RC6/TX1/CK1
- 32 RC7/RX1/DT1

Related Products

PIC24F16KA101-I/SS

Microchip Technology, Inc

SSOP-20

PIC16F1936-I/SS

Microchip Technology, Inc

SSOP-28

PIC16F1938-I/SP

Microchip Technology, Inc

PDIP-28

PIC18F23K22-I/SP

Microchip Technology, Inc

SPDIP-28

PIC18F6520-I/PT

Microchip Technology, Inc

TQFP-64

PIC18F2620-I/SP

Microchip Technology, Inc

SPDIP-28

PIC18F2620-I/SO

Microchip Technology, Inc

SOIC-28

PIC18F97J60T-I/PT

Microchip Technology, Inc

TQFP-100