One Operand (16-bit)

Op Code

5 bits

RS

3 bits

Don’t care 8 bits

Two Operands (16/32-bit)

Don’t C

2 bits

Immediate 16 bits

Op Code

5 bits

RD

3 bits

RT/shift A

3 bits

RS

3 bits

Memory Operations (16/32-bit)

EA

4 bits + Imm

Immediate 16 bits

Op Code

5 bits

Don’t care

4 bits

RS

3 bits

Branch and Change of Control Operations (16-bit)

Don’t care 8 bits

Op Code

5 bits

RS

3 bits