

publisher - PUB (3)

broker - PUB (3)

- PUBACK (4)

- SUBACK (6)

- CONNACK (2)

- PING ACK (8)

- CONN (1)

- FINACK (9)

subscriber - SUB (5)

- PUBACK

- PING (7)

9

Packet

1 CONN

2 CONNACK

3 PUB

4 PUBACK

5 SUB

6 SUBACK

7 PING

8 PING ACK

9 FINACK

## Fixed Header

byte 1 4 bit unused type

4 bit 2 bit flag

byte 2,3 remaining length

## Variable Header

### ① conn

header protocol name  
protocol version byte 4

byte 1 protocol name length

byte 2-n protocol name

byte n+1 protocol version

### ② connAck

header Is error

byte 1 return code

### ③ PUB

header topic name  
message id

byte 1 topic length

byte 2-n topic name

byte n+1 → n+2 message id

payload message

#### ④ PUPACK

header      message id  
byte 1-2      message id

#### ⑤ SUB

header      topic name  
byte 1      topic length  
byte 2-n      topic name

#### ⑥ SUBACK

header      message id  
byte 1-2      message id

#### ⑦ PING

#### ⑧ PINGACK

#### ⑨ FINACK

Fixed			Variable	Payload
1	2	3	4-n	n++++