

publisher - PUB (3)

broker - PUB (3)

- PUBACK (4)

- SUBACK (6)

- CONNACK (2)

- PING ACK (8)

- CONN (1)

- DISCONN (9)

subscriber - SUB (5)

- PUBACK (4)

- PING (7)

9

Packet

1 CONN

2 CONNACK

3 PUB

4 PUBACK

5 SUB

6 SUBACK

7 PING

8 PINGACK

9 DISCONN

Fixed Header

byte 1 4 bit usn, 4 bit type

4 bit 2 bit flag

byte 2,3 remaining length

Variable Header

1 buff = 1 byte

① conn

header protocol name protocol version byte 1

byte 1 protocol name length 1

byte 2-n protocol name 4

byte n+1 protocol version 1

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
byte 1 return code

⑦ PING

⑧ PINGACK

⑨ DISCONN

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