



EMQ X Production Features Comparison

	Broker	Enterprise	Platform
1. Connection Number			
	100K	1M	10M
2. Basic Features			
Full MQTT V3.1/V3.1.1/5.0 protocol specification support	√	√	√
QoS0, QoS1, QoS2 publish and subscribe	√	√	√
Session management and offline messages	√	√	√
Retained message	√	√	√
Last will message	√	√	√
\$SYS/# topics	√	√	√
Session expiry	√	√	√
Message expiry	√	√	√
Reason code for message response	√	√	√
Server-side disconnection	√	√	√
Payload format and content type	√	√	√
Topic alias	√	√	√
Cluster support multiple servers	√	√	√
Local subscription	√	√	√
Hooks, modules, and plugins extension	√	√	√
Dashboard management UI	√	√	√
Delayed publish	√	√	√
Multi-zone support	√	√	√
Docker image installation	√	√	√
K8S installation	√	√	√
The shared subscription on node	√	√	√
The shared subscription on cluster		√	√
3. Protocol Supports	√	√	√
TCP/SSL connection	√	√	√
TLS/DTLS PSK connection	√	√	√
WebSocket (SSL) connection	√	√	√
HTTP publish API	√	√	√
STOMP protocol	√	√	√
MQTT-SN protocol	√	√	√
CoAP protocol	√	√	√
LwM2M protocol	√	√	√
4. Clustering Supports			
Basic clustering	√	√	√
Automatic healing of clustering split	√	√	√
Automatic removal of offline nodes	√	√	√
Extended clustering		√	√
5. Authentications	√	√	√
ClientID authentication	√	√	√
IP Address authentication	√	√	√
Username and password authentication	√	√	√

Access control based on IPAddress, clientID, username	√	√	√
Authentication with LDAP, Redis, MySQL, PostgreSQL and HTTP API	√	√	√
6. Rule Engines		√	√
Basic rule engine	√	√	√
Enhanced rule engine		√	√
7. Data Persistences		√	√
Data persistence to Mysql		√	√
Data persistence to MongoDB		√	√
Data persistence to PostgreSQL		√	√
Data persistence to Redis		√	√
Data persistence to Cassandra		√	√
Data persistence to OpenTSDB		√	√
Data persistence to AWS Dynamodb (Plan)		√	√
Data persistence to Azure Cosmos DB (Plan)		√	√
Data persistence to MS SQL DB (Plan)		√	√
Data persistence to Oracle DB (Plan)		√	√
Data persistence to InfluxDB (Plan)			
8. Data Bridges			
Data bridge to other MQTT brokers	√	√	√
Data bridge to AWS IoT	√	√	√
Data bridge to Azure IoT	√	√	√
Data bridge to Kafka		√	√
Data bridge to RabbitMQ		√	√
Data bridge to RocketMQ		√	√
Data bridge to Apache Pulsar (Plan)		√	√
9. Monitoring Center		√	√
10. Technical Supports			
Community support	√		
Basic operation support		√	√
Project support service	√	√	√
11. Product Training	√	√	√
12. Cross IDC Solution			√
13. Consultings			
Basic solution consulting	√	√	√
Customization deveopment		√	√
Infrastructure design consulting	√	√	√
Integration consulting			√
14. Business Integration			√
15. On-site Support			√