



Product Specification



ucChat

Available on	iOS / Android	Mac OS / Windows	
Major Protocols Supported	SIP / XMPP / MQTT		
Functions	 Instant Messaging Group Chat Audio / Video Call File Transfer Video Conference 	Instant MessagingGroup ChatFile Transfer	



UC Server

Minimum Requirement	Architecture: X86 / Memory:4G / Storage: 64GB / Core: 2	
Functions	Firewall / Router / VPN / SIP / XMPP / MQTT / HTTP / LDAP Server	
Major Protocols Supported	SIP / XMPP / MQTT / HTTP / LDAP	
Functions	 Firewall: UC Server can serve as a firewall monitoring network traffic while maintaining VPN connection. Router: UC server acts as a router when clients are not registered under the same server VPN: Push call ensures the connections between servers and clients are stable and uninterrupted. SIP: SIP is a crucial component of Voice over IP (VoIP) and Unified Communications (UC) systems, allowing devices and applications to set up and manage voice and video calls, instant messaging sessions, and other real-time communication sessions over IP networks. XMPP: Designed for real-time, instant messaging (IM), and presence information exchange. LDAP: It is commonly used in networked environments to centralize the management of user and organizational data. MQTT: Designed for communication between devices, and widely used in IoT. 	



Cluster Solution

Scalability	Scalability adapts to growth, prevents bottlenecks, and offers flexibility, future-proofing the infrastructure for evolving needs. By distributing tasks across multiple nodes and dynamically adjusting resources, scalability ensures clusters remain responsive and resilient in the face of shifting requirements.	
Load Balancing	LDAP SIP VPN	LDAP specializes in authentication and stores accounts information. Authenticating account information takes time and builds up traffic. To eliminate performance bottlenecks, we implemented load balancers to achieve an efficient and secure communication network environment.
Data Replication	XMPP MQTT HTTP	Data replication plays a crucial role in cluster solutions, serving as a safeguard in case of node failures or hardware/software problems. Our priority is to guarantee that all users can instantly access messages and files in various formats that they send to one another under any circumstances.