Inventek Systems
Embedding Connectivity Everywhere

TCP/ UDP Multi Sockets

Notes:

Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) are used for point-to-point or port-to-port communications on a network

TCP is a guaranteed port-to-port communication protocol that is used to insure data is transferred error free between a server and client.

UDP is considerd to be faster than TCP for the movement of data over a network; however, UDP does not guarantee the delivery of data between a server and a client. UDP lite is UDP with the partial removal of checksums which may improve network data movement performance but may be more prone to data errors.

The eS-WiFi module supports TCP, UDP, and UDP lite for port-to-port communication.

The eS-WiFi module can be configured as a server or client on a network for TCP/UDP communication. In Transport server mode, the eS-WiFi module will wait in the background for connection requests.
Once a network device requests a connection to the server, t
he server will enter a mode were data can be requested by a client and data delivered to a client.

The eS-WiFi module can also be configured as a client for TCP/UDP communications to make requests to a Transport server on the wireless network.

If UDP or UDP lite is used, it is recommended that the user develop their own packet numbering and error checking for data transfers.

The browser sends multiple http request and the server handles them sequentially