

Modbus Monitoring

The latest firmware of the ESTeem Edge 900 supports Modbus/TCP protocol for access to multiple operating parameters in the wireless modem and RF network health status. Uptime, link quality indicator and receive signal strength (RSSI) are a few of the registers available through the open Modbus/TCP protocol. This data can be obtained by polling the registers directly or using available utilities.

The following are the Modbus registers supported in the ESTeem Edge 900 on Port 502. Registers are mapped as 32-bit integer type input registers:

These registers apply to firmware version 202403261152 or newer.

Edge 900 Information

Type	Registers	Example	Title
INT	0-1	25510	Serial Number
INT	2-3	1	Number of connections (clients)
INT	4-5	-4700	Instantaneous RSSI (Received Signal Strength Indicator) dBm/100
INT	6-7	9	Instantaneous LQI (Link Quality Indicator)
INT	8-9	1	Instantaneous CRC (Cyclic Redundancy Check)
INT	10-11	-4700	Last Valid RSSI dBm/100
INT	12-13	-4662	Last Valid LQI
INT	14-15	1230	AUX Volts /100
INT	16-17	96	RX Bytes
INT	18-19	3646	TX Bytes
INT	20-21	497	RX Short Packet Count
INT	22-23	1	RX Long Packet Count
INT	24-25	34	TX Packet Count
INT	26-27	0	CRC Error Count
INT	28-29	0	Retry Count
INT	30-31	1	Ethernet Link State (1 = Up, 0 = Down)
INT	32-33	56	Uptime (Seconds)