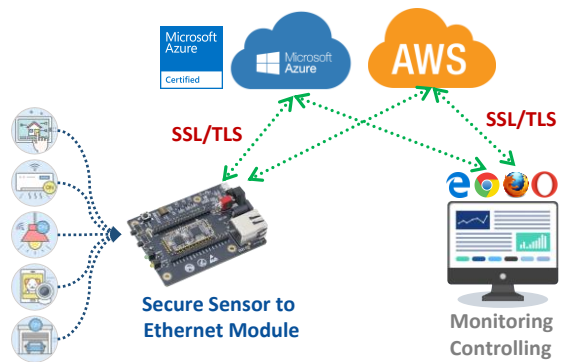


TLS Serial to Ethernet Module

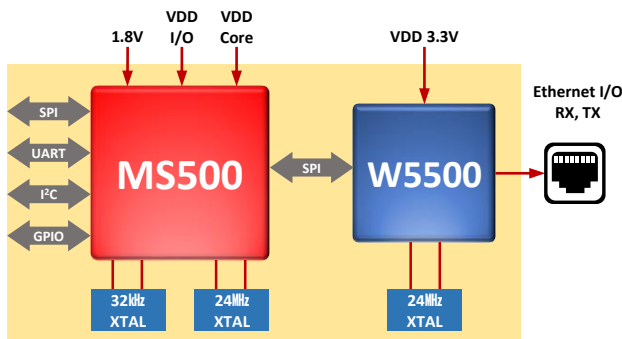
Powered by MS500

TLS SECURED SENSOR TO ETHERNET MODULE

- Microsoft Azure and Amazon Certified for IoT
- TLS optimized with the security chip MS500
- PKI (Public Key Infrastructure) support
- Hardware based Crypto Engines:
 - AES upto 256, ECC upto 512
 - RSA upto 2048, SHA 256
- Secure Boot Function for
 - Firmware Integrity checking
 - Verification of Signed Firmware
- Secure Storage
- Secure Digital Key Management



BLOCK DIAGRAM



APPLICATIONS

- Secure Sensors and actuators
- Smart Factory Automation
- Industrial IoT

SPECIFICATION

Model	TSE100-AZ (or AW)
Module Dimension	50 × 25 × 1.2 mm
Hardware Platform	MS500 for Security W5500 for Ethernet TCP/IP
CPU	ARM Cortex M0 @ 96MHz
Interface	UART, SPI, I2C, GPIO, Ethernet IO
Internal Flash Memory	4MB in MS500
PIN	56 pins
Secure Library	mbed TLS
TLS	TLS 1.2 or higher
Temperature	-40 ~ 85 C
Certificates	CE and ROHS compliant

SYSTEM PROTOTYPE

