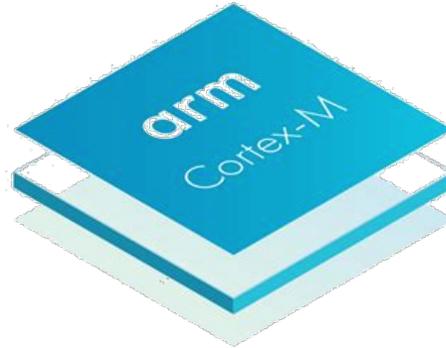


# MantisConnect Features



## Overview:

- 96x96 CMOS Image Sensor Array
- MantisNet AI Inference Engine
- ARM Cortex M3 with 8Mbits Flash
- Wireless Radio Transceiver
- AEC (automatic exposure control)
- Power Management
- LED Driver with PWM Control
- Low-power Always On Operation (~1mA)
- Integrated power management including DC/DC
- Real time clock, UART, OTA Firmware Update
- Package: 9x5x1.1mm, 66 pad, optical land grid array (OLGA)



## HW Crypto Engine

- AES128/256 Operation
- P-192/256 ECDH (Elliptic Curve Diffie-Hellman) Key Generation

## Communications:

### Ultra Low Power Wifi

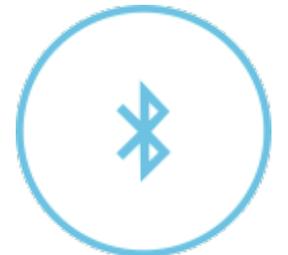
- 802.11b up to 11Mb
- Supports STA Mode
- WPA/WPA2 security supported
- Automatic beacon scanning and discover
- Built in TCP/IP Stack
- Integrated Dual PAs (-2dBm and +10dBm)



Wifi

### Bluetooth Smart

- Compliant with BLE 5.0 BLE up to 2Mbps
- Slave Mode Support
- All GATT-based Profiles Supported
- Built in BLE Stack
- 0 to 10dBm Output Power
- -93dBm Receive Sensitivity



Bluetooth 5.0

Additional Information available on request to [support@aistorm.ai](mailto:support@aistorm.ai)