

ASTeC

Industrial Low power Controller (iLoC) is a solar powered stand alone module housed in an IP65 enclosure. The iLoC enables to monitor a remote site when it is impractical or too expensive to run electrical power to that location. It is capable of acquiring Analog Inputs, Digital Input/Output and having programmable scan interval. The architecture, combined with low power modes and separate switching regulators for peripherals is to achieve extended battery life especially for uninterrupted remote applications. It is equipped with wireless communication interfaces such as IEEE 802.15.4(Zigbee), IEEE 802.11b/g (Wi-Fi, only for powered conditions) and configurable RS 232/RS485.

Low Power Controller embeds **TinyOS** , which is designed for low powered devices with networking capabilities and resources-constrained devices.

DESIGN FEATURES

- ✦ 166 x 161 x 72mm IP65 enclosure
- ✦ 64-bit configurable and unique module ID
- ✦ Solar panel with battery backup for remote application

LOW POWER FEATURES

- ✦ Powered by Ultra-low-power 16 bit MCU
- ✦ Active and Low power modes for extended battery life
- ✦ 48 Hrs of battery backup for uninterrupted operations
- ✦ Embeds event based TinyOS scheduler for low power application

FIELD INTERFACES

- ✦ 4 nos of 4-20mA Analog Input
- ✦ 8 nos of Digital Input
- ✦ 4 nos of Digital Output

COMMUNICATION INTERFACES

- ✦ IEEE 802.15.4 Zigbee
- ✦ Optional IEEE 802.11b/g Wi-Fi
- ✦ Configurable RS232 / RS485

POWER SPECIFICATIONS

- ✦ 395 x 265 x 19.5 mm solar panel with 12V, 1A
- ✦ 7.2V, 4.8Ah Li-ion battery
- ✦ Current consumption of 190 mA during active and <1mA during low power mode