



Mikros EIC (ELTEC Intelligent Controller)

Super Efficient DC Controller for Solar Powered Applications

Mikros EIC (ELTEC Intelligent Controller) offers the lowest power consumption in the industry making stand alone solar powered traffic signals a reality. For Hybrid beacon systems, this innovative controller represents a true paradigm shift in controller design.

SPECIFICATIONS

- Input Power: Less Than 2Watts at 12 or 24VDC
- Power Supply Board with Self-Resetting, Polyfuse
- Radio Board
 - 900MHz FHSS
 - Point to Multi-Point Topology
 - Transmitter Power 1mW to 1W
 - Two-Plus Mile Range (line of sight)
 - Receiver Sensitivity – 108dBm
 - 128-Bit AES Encryption
 - FCC 15.247 and Canadian IC RSS-210 Certified for Unlicensed Use
- DC I/O Interface Board with Auxiliary Inputs (isolated switch closure)
 - Pedestrian Call (activations), Coordination, Pre-Emption
- CPU/MMU Board
 - Control and Monitoring
 - 32-Bit ATMEL Processor
 - Conflict Monitor – Communications, Signal Current, Signal Conflict
 - Battery Voltage Monitor
- LCD (4x20 with Backlight) and 6-Key Pad for Programming

FEATURES and BENEFITS

- Sustainable Solar Charged DC Battery Power Provides Stable Operation
- Reliable Wireless Control and Real-Time Monitoring Between Units
- Distributed Control and Local Monitoring
- Versatile Hardware/Software
- Simple User Interface for System Status and Programming
- Compact Size: 7.0"W x 5.5"D x 9.0"H
- Controller Powered by DC (solar), but can be Powered by Grid (AC) with Added Power Supply
- Optional Hard-Wired Control

FIELD WIRING and SIGNAL CONTROL OPTIONS

- Option 1: AC Wired—Utilizes Existing Field Wiring, Traditional One Controller Setup
- Option 2: AC Wireless—Radio System Operated. No Field Wiring Between Poles Necessary, Distributed Intelligence
- Option 3: DC Wireless—Mikros EIC DC Controller Powered by Solar System



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