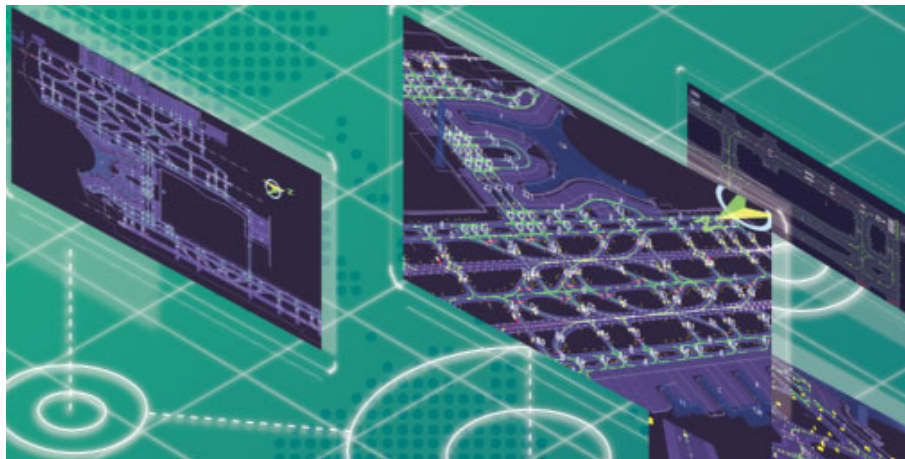
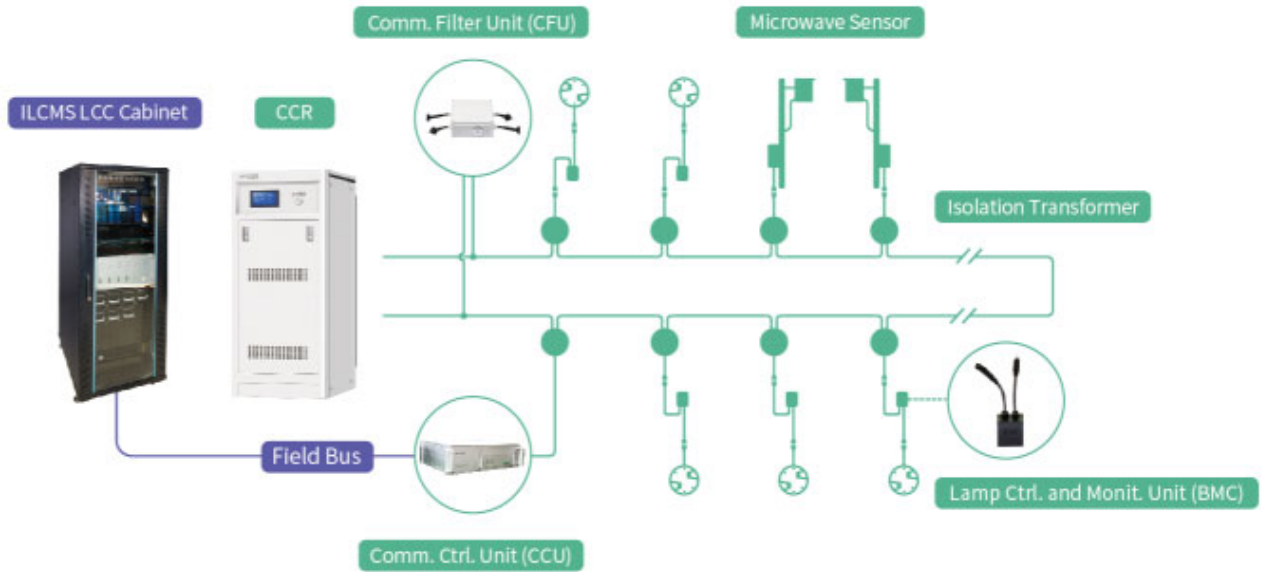


AIRPORTS LIGHTING CONTROL AND MONITORING SYSTEM



ARCHITECTURE



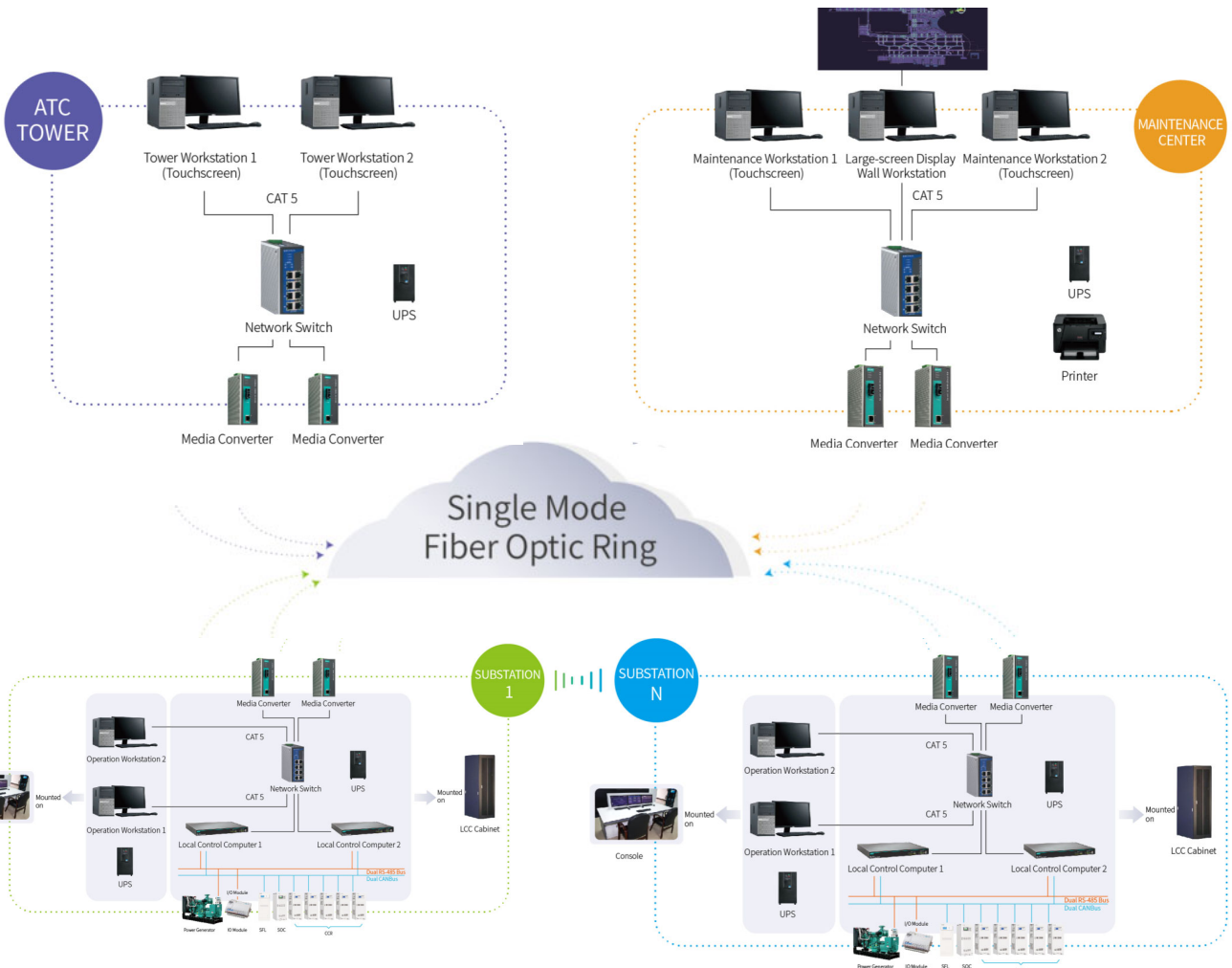
FEATURES

- A-SMGCS oriented design
- Power lone carrier communication, no dedicated cabling required
- Response time <2 s.
- Detection and control accuracy $\geq 99,98\%$
- High fault tolerance communication with lower rate of false alarms
- Military-grade components and strong environmental adaptability
- No special requirements for isolation transformers
- Compact lamp Ctrl. and Monit. unit, fitting in the isolation transformer box
- Clear indication of Lamp Ctrl. and Monit. unit fault or lamp fault
- Multiple interfaces of international compliance
- 10000+ nodes application in a single project

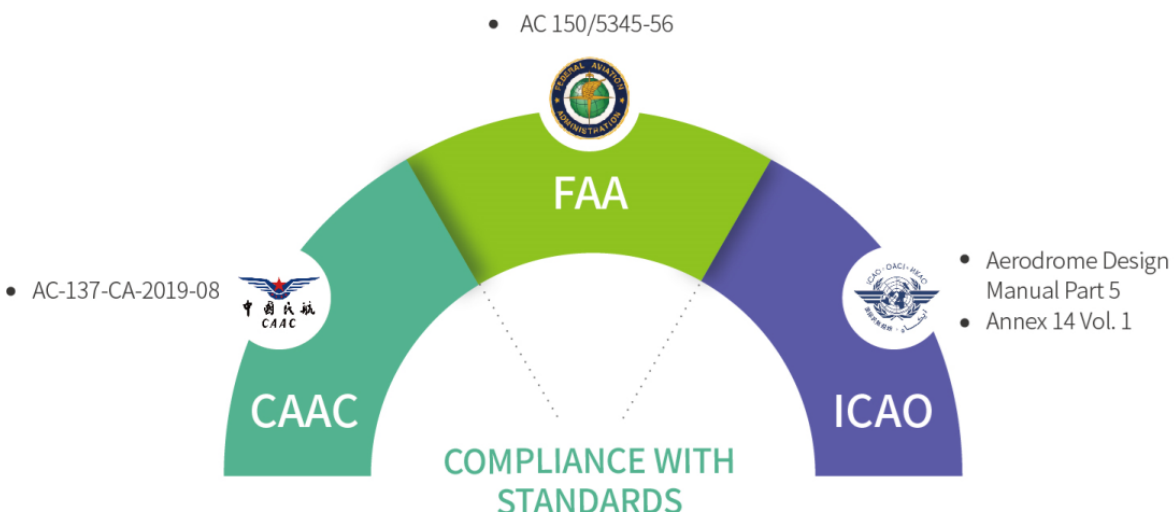
AIRPORTS LIGHTING CONTROL AND MONITORING SYSTEM



ARCHITECTURE



COMPLIANCE WITH STRDS.





FEATURES

SAFETY

Prevention of intensity control errors

- Commands will be resent automatically in case of failure
- Verification of commanded step and delivered step
- Verification of intensity steps on the circuits of the same designation

Anti-misoperation

- Screen lock
- Double confirmation of key operations
- Human voice confirmation on important operations.

RELIABILITY

- Distributed and modularized system structure
- Redundant hardware and software providing swapping with no disturbance
- 1000M LAN
- Dedicated Industrial-grade substation equipment
- Multiple fail-safe modes
- 48 months data storage minimum
- Intelligent event analysis and processing: Prediction beforehand, isolation in process, self-healing afterwards
- Choice of 300+ airports worldwide

FRIENDLY HMI

- Multi-view 2D/3D display
- 100% representation of actual location of lights in the flight zone
- 360-degree vector zooming in and out
- Alarm classification
- Human voice prompt
- Customized to the specific needs of users. Multilingual interface





TECHNICAL DATA

TECHNICAL DATA

- Operating Temperature: 0°C ~ 40°C
- Humidity: 0 ~ 90%
- Altitude ≤ 4000 m

Control time

- From command input until acceptance or rejection < 0.5s
- From command input until control signal output to regulator or other controlled unit < 1s

Feedback Time

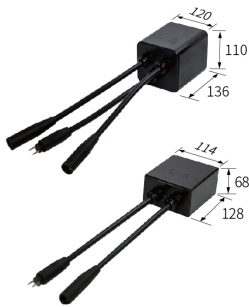
- For system to indicate that a control device has received the control signal < 2s
- Back indication to tower display of regulator initiation < 1s

Fault Detection & Handle Time

- From command input until acceptance or rejection < 0.5s
- From command input until control signal output to regulator or other controlled unit < 1s

CONTROL

LAMP Ctrl. and Monitoring Unit (BMC)



- Lamp power (@6.6 ARMS) ≤ 300W
- BMC power (@6.6 ARMS) < 4.5W (single output) < 9W (dual output)
- Operating temperature -40°C ~ +85°C
- Weight 1.5 Kg (single output) / 2.9 Kg (dual output)
- Level protection IP68

STOP BAR CONTROL

