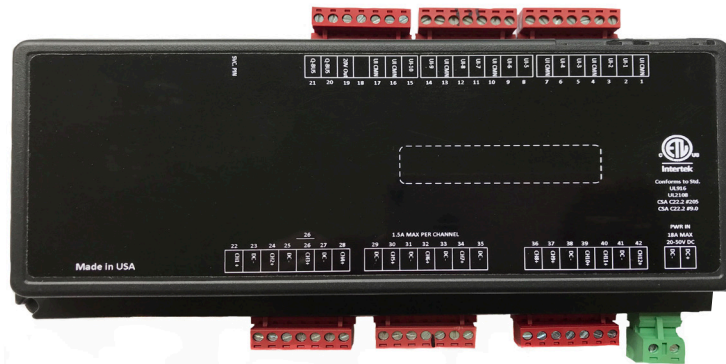


AZUL MV IoT LED CONTROLLER

INTELLIGENT NETWORKED LIGHTING PLATFORM



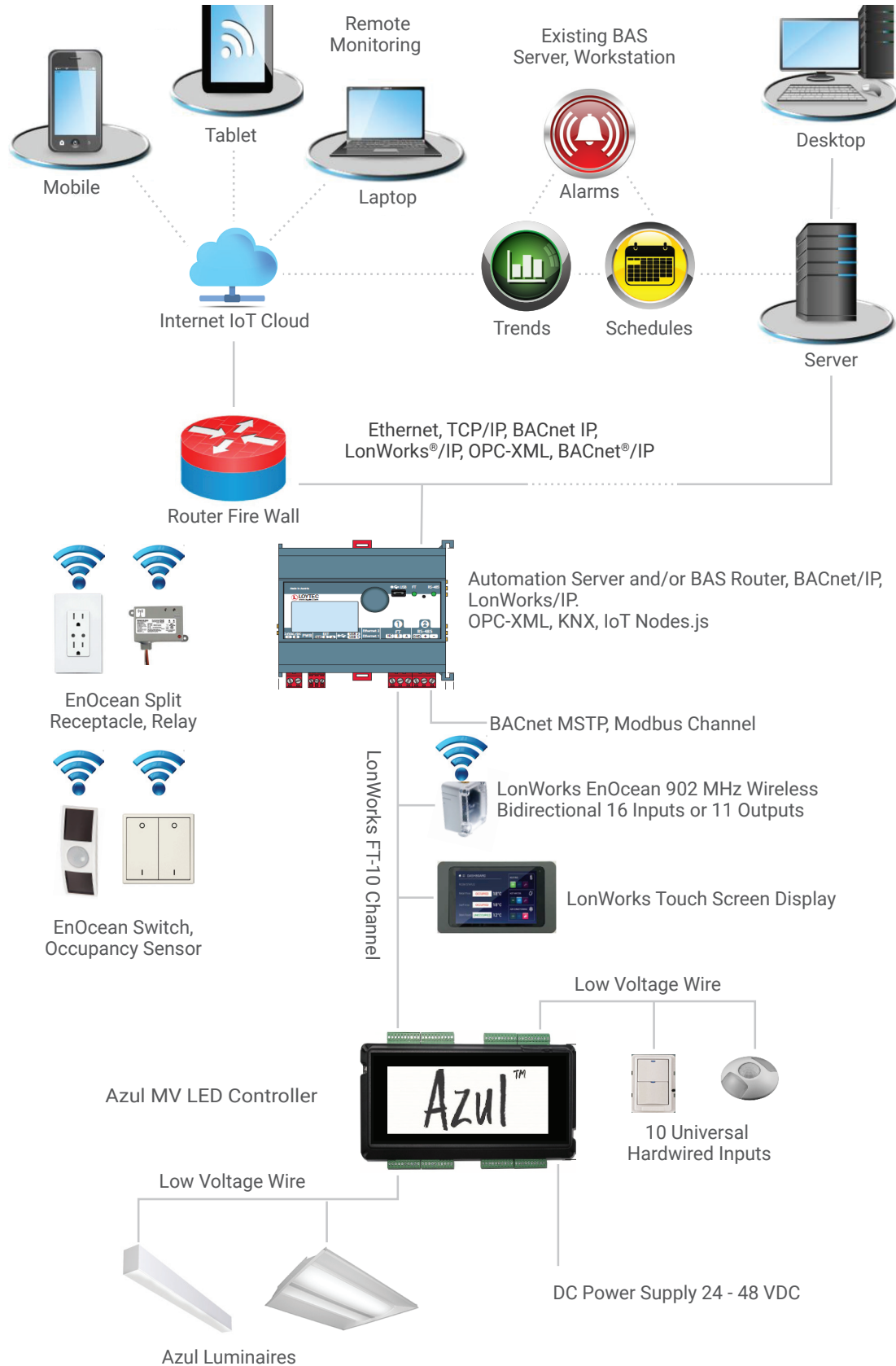
FEATURES

- Allows full integration into an existing building management system (BMS) with communication protocols such as BACnet®/IP or LonWorks®/IP or can be utilized as a standalone lighting automation system with graphical visualization for central automation tasks like schedules, alarms and trends
- Transmits IoT data in the form of IoT Node.js® for cloud applications utilizing data analytics
- Capable of driving 12 single channel, or 6 dual-channel Class II constant current LED light engines for spectral control, utilizing 24 to 48 VDC
- Configurable to use up to 10 universal hard-wire sensors and/or switches
- Features energy consumption reporting via an integrated meter which includes Amps, Volts, Watts, Watt-Hours for M&V applications
- UL 2108 and UL 916 listed, allowing the controller to provide power to LED fixtures as a Class II low voltage system
- Utilizes LonWorks® FT-10 protocol, allowing for minimal latency on the control network.
- LonWorks EnOcean 902 MHz wireless bidirectional devices can be easily used to turn on/off, dim and change the spectra of LED fixtures.
- Enables EnOcean receptacles and relays to be used to meet California Title 24 requirements.
- Other LonWorks devices, such as touch screens, can be utilized for local visualization and control of system components.

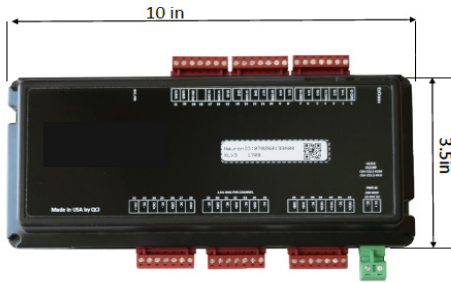
SPECIFICATIONS *All data shown is nominal*

POWER SUPPLY INPUT	
Voltage/Current	48VDC Nominal, 50V DC max, 24V DC min, Class II
Power Consumption: Supply Amperage	18A max
Power Consumption: Output Amperage	1.5A per channel max Class II
COMMUNICATIONS	
Communication Bus	LonTalk protocol
Transceiver	Adesto® FT 5000 Free Topology Smart Transceiver
Channel	TP/FT-10; 78 Kbps
HARDWARE	
Processor	ARM® M4 Cortex® 32 bits, 168 MHz
CPU Speed	72 MHz
Memory	190 KB
Status Indicator	Multicolor LED, power, status
Communication Port	FT-10 Port
INPUTS	
Input Type	Universal, software configurable
Input Voltage Range	0-10 VDC / 1-5 VDC, Potentiometer with custom scaling, Thermistor 10K Ω Type II and Type III (Type II recommended)
Input Current Range	0-20mA DC / 4-20mA DC
Input Resolution	12-bit analog / digital converter
Contact Type	Dry contact
LED DRIVER	
Voltage Range	48VDC Nominal, 50V DC max, 24V DC min, Class II
Supply Amperage	1500 mA Max
Dimming	0.1% Increments
Channels	12, Class II constant current LED light engines
ENVIRONMENT	
Temperture	0° to 49°C (32° to 120°F)
Humidity	0-90% non condensing
Storage	-20° to 70°C (-4° to 158°F)
MECHANICAL	
Material	ABS
Color	Black
Installation	35 mm DIN
Connectors	Removable
CERTIFICATIONS & WARRANTY	
cULus Listed for Canada and the US	UL 916 Energy Management Equipment, UL 2108 Low Voltage Lighting Systems
CSA	C22.2#205, C22.2#9.0

SCHEMATIC



DIMENSIONS



ORDERING

EXAMPLE: ACTRL-07000, LSHAZUL-CTRL-MVO-Controller

Accessory No.	Part No.
ACTRL- 07000	LSHAZUL-CTRL-MVO-CONTROLLER