Digital Lighting Management

PRODUCT GUIDE

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The Ultimate Solution

Evolving energy codes, transformative lighting technology, and high performance buildings require powerful and robust energy savings solutions. The adaptable Digital Lighting Management (DLM) technology platform provides control infrastructure at every switch, outlet, and lighting load for optimal energy performance.

SIMPLICITY - Intuitive user interfaces, convenient remote management options, and Plug n' Go™ automatic configuration make DLM simple to use and install. Optimizing energy performance with DLM makes it easy to meet the latest code requirements.

FLEXIBILITY - Adapt each space to meet the occupants' needs with Push n' Learn™ personalization, building block architecture, and easy integration with other building systems.

SCALABILITY - Support the drive towards a net zero future. DLM scales up to accommodate whole buildings or campuses designed for the highest levels of energy performance.

DLM Solutions

04
Introduction

06
Personal Controls

07
Occupancy Sensors

09
Daylight Sensors

10
Load Controllers

12
Interface Devices
Fixture Controls

13
Configuration Tools
Software

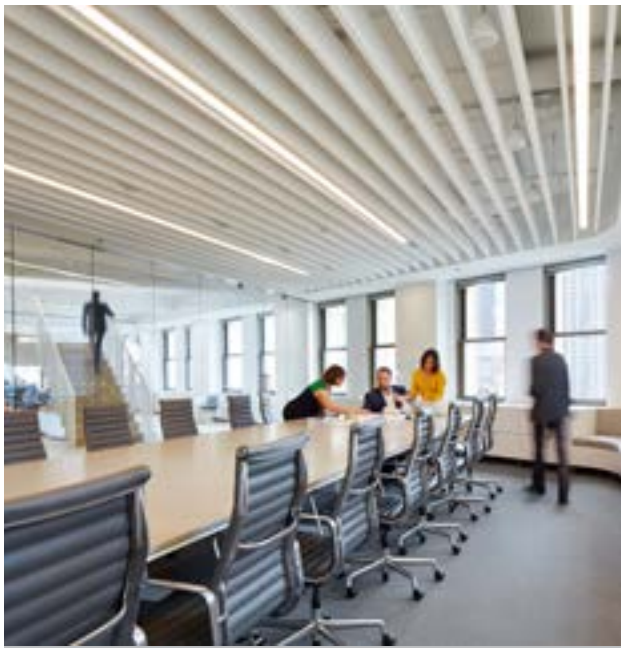
14
Network Components

15
Control Panels
Enclosures

16
Accessories & Cables

Digital Lighting Management Solutions

Evolving energy codes, transformative lighting technology, and high-performance buildings require powerful, flexible solutions. Wattstopper Digital Lighting Management is a solution that provides control infrastructure in every space at the switch, outlet, and lighting load for optimal energy performance.



01

Room Controls

DLM is an intelligent, distributed control system designed to meet Energy Codes and the control needs of commercial spaces. Room controls include load controllers, occupancy sensors, switches, daylighting sensors, plug load controls, lighting control panels, interfaces and accessories that provide convenient, energy-saving control of dimmed and switched loads. DLM can be used for stand-alone control of individual building spaces, or networked for centralized control of a floor, a building, or an entire campus.

02

Network Controls

This scalable solution lets you connect DLM rooms to a wired or wireless network across floors and entire buildings. The network controller provides centralized management of the entire system offering effortless scheduling, occupancy status, energy monitoring and demand response.

Seamless integration with BACnet means DLM networks and controls can interface directly with building automation systems such as fire alarms, HVAC, and other critical infrastructure, automating responses while streamlining everyday operations.

03

Integration

DLM offers multiple options for local in-room and network integration to support a variety of applications. The LMOR-102 output relay interface enables DLM switches, sensors, and schedules to control third party devices such as shade motors and dry contact devices. The LMIN-104 input interface allows DLM to accept an input signal from a wide variety of devices such as building automation systems, time clocks, key switches, and patient room pillow switches. For broader building communication, DLM also supports network integration via protocols such as BACnet for building automation and can interface with fire alarm systems to ensure coordinated responses to safety events. This dual approach allows seamless integration from room-level adjustments up to centralized facility control systems, making DLM adaptable for both standalone applications and enterprise-level projects.

04

Services

Lighting Control System Services offers a broad portfolio of support from initial design to system startup and post-install engagement for the Digital Lighting Management system. Our Connected Services offering combines our secure remote support (RACCESS) with on-site services while our data-driven services leverages on-site and cloud infrastructure to analyze available system performance data. Both are backed by our Remote Operations Center (ROC) technical support staff and our Customer Success team who act as an extension to your facility management team.

Personal Controls

PRODUCT COLOR KEY:

W-White *I-Ivory* *LA-Light Almond* *G-Gray* *B-Brown* *BK-Black* *R-Red*

	PART NUMBER	DESCRIPTION	VOLTAGE	LOAD SWITCHING	LOAD DIMMING	SCENE CONTROL	RJ45 PORTS	FINISHES
WIRED CONTROLS								
	LMPS-104	4-Button Digital Partition Switch with 16 Configuration Profiles	24VDC; 5mA	N	N	N	2	W
	LMSW-210	1-Button Wall Switch	24VDC; 5mA	Y	Y	Y	2	W I LA G BK R
	LMSW-211	1-Button, 1-Rocker Wall Switch	24VDC; 5mA	Y	Y	Y	2	W I LA G BK B R
	LMSW-220	2-Button Wall Switch	24VDC; 5mA	Y	Y	Y	2	W I LA G BK B R
	LMSW-222	2-Button, 2-Rocker Wall Switch	24VDC; 5mA	Y	Y	Y	2	W I LA G BK B R
	LMSW-241	4-Button, 1-Rocker Wall Switch	24VDC; 5mA	Y	Y	Y	2	W I LA G BK B R
	LMSW-250	5-Button Wall Switch	24VDC; 5mA	Y	Y	Y	2	W I LA G BK B R

Personal Controls *cont.*

PRODUCT COLOR KEY:

W-White *I-Ivory* *LA-Light Almond* *G-Gray* *B-Brown* *BK-Black* *R-Red*

	PART NUMBER	DESCRIPTION	VOLTAGE	LOAD SWITCHING	LOAD DIMMING	SCENE CONTROL	RJ45 PORTS	FINISHES
WIRELESS CONTROLS								
	LMSW-610-S	Wireless 1-Button Wall Slim Switch	N/A battery	Y	Y	Y	N/A	W I LA G BK B R
	LMSW-611-S	Wireless 1-Button, 1-Rocker Wall Slim Switch	N/A battery	Y	Y	Y	N/A	W I LA G BK B R
	LMSW-622-S	Wireless 2-Button, 2-Rocker Wall Slim Switch	N/A battery	Y	Y	Y	N/A	W I LA G BK B R
	LMSW-632-S	Wireless 3-Button, 2-Rocker Wall Slim Switch	N/A battery	Y	Y	Y	N/A	W I LA G BK B R
	LMSW-641-S	Wireless 4-Button, 1-Rocker Wall Slim Switch	N/A battery	Y	Y	Y	N/A	W I LA G BK B R
TOUCHSCREEN CONTROLS								
	LMGS-150-PB	5.7" Graphic Switch with LMPB-100	24VDC; 150mA	Y	Y	Y	1	W BK

Occupancy Sensors

	PART NUMBER	DESCRIPTION	VOLTAGE	COVERAGE	RJ46 PORTS	LCD DISPLAY	FINISHES
SWITCHES WITH INTEGRATED SENSOR							
	LMDW-211	1-Button, 1-Rocker Dual Technology Wall Mount Sensor	24VDC; 20mA	Ultrasonic & PIR Up to 40 ft. (major motion) Up to 25 ft. (minor motion)	2	N	W I LA G BK R
	LMDW-220	2-Button Dual Technology Wall Mount Sensor	24VDC; 20mA	Ultrasonic & PIR Up to 40 ft. (major motion) Up to 25 ft. (minor motion)	2	N	W I LA G BK R

Occupancy Sensors *cont.*

	PART NUMBER	DESCRIPTION	VOLTAGE	COVERAGE	RJ46 PORTS	LCD DISPLAY	FINISHES
CEILING MOUNT							
	LMDC-100	Ceiling Mount Dual Technology Occupancy Sensor	24VDC; 20mA	Ultrasonic and PIR, up to 1,000 ft²	2	N	W BK
	LMPC-100	Ceiling Mount PIR Occupancy Sensor	24VDC; 7mA	-100: Extended Range Lens, up to 1,200 ft² -100-1: High Density Lens, up to 500 ft² -100-5: Extended Height Lens, up to 3,800 ft²	2	N	W
WIRELESS							
	LMPC-600	Wireless PIR Ceiling Mount Occupancy Sensor	N/A battery	-600: Extended Range Lens, up to 1,000 ft² -600-1: High Density Lens, up to 450 ft² -600-5: Extended Height Lens, up to 3,800 ft²	N/A	N	W
CORNER MOUNT							
	LMDX-100	Corner Mount Dual Technology Occupancy Sensor	24VDC; 20mA	Walking, up to 2,000 ft² Desktop, up to 1,000 ft²	1	Y	W
	LMPX-100	Corner Mount PIR Occupancy Sensor	24VDC; 7mA	-100: High Density Lens, up to 2,000ft² (walking) and 1,000 ft² (desktop) -100-1: Long Range Lens, up to 32 x 90ft -100-3: 2-Sided Aisle Lens, up to 10 x 67ft -100-4: 1-Sided Aisle Lens, up to 6 x 50ft	1	Y	W
WIRELESS							
	LMPX-600	Wireless Corner Mount PIR Occupancy Sensor	N/A battery	-600: Wide Angle Lens, up to 100° x 60ft -600-1: Long Range Lens, up to 32 x 60ft -600-4: Extra Wide Angle Lens, up to 20 x 45ft	N/A	N	W

Daylight Sensors

	PART NUMBER	DESCRIPTION	VOLTAGE	ON/OFF SWITCHING	DIMMING	ZONES	RJ45 PORTS	AUTOMATIC CALIBRATION
SINGLE-ZONE SWITCHING								
	LMLS-400	Single-Zone Switching & Dimming Closed Loop Photosensor	24VDC; 7mA	Y	Y	1	1	Y
	LMLS-400-L	Single-zone Switching & Dimming Closed Loop Photosensor with Extended Tube (5/8" - 1 1/4")	24VDC; 7mA	Y	Y	1	1	Y
MULTI-ZONE SWITCHING								
	LMLS-500	Multi-zone Switching & Dimming Open Loop Photosensor	24VDC; 7mA	Y	Y	3	1	Y
	LMLS-500-L	Multi-zone Switching & Dimming Open Loop Photosensor with Extended Tube (5/8" - 1 1/4")	24VDC; 7mA	Y	Y	3	1	Y
WIRELESS								
	LMDL-600	Wireless Multi-zone Switching & Dimming Open Loop Photosensor	N/A battery	Y	Y	3	N/A	Y

Load Controllers

	PART NUMBER	DESCRIPTION	VOLTAGE	LOAD RATINGS	RELAYS	ON/OFF SWITCHING	0-10V DIMMING	ENERGY MONITORING	RJ45 PORTS
ROOM CONTROLLERS									
	LMRC-101	1-Relay On/Off Room Controller	120/277VAC	E-Ballast: 16A Ballast: 20A Incan: 20A Motor: 1HP	1	Y	N	N	3
	LMRC-102	2-Relay On/Off Room Controller	120/277VAC	E-Ballast: 16A Ballast: 20A Incan: 20A Motor: 1HP	2	Y	N	N	3
	LMRC-111-20M	1-Relay Room Controller with Metering	120/277VAC	E-Ballast: 20A Ballast: 20A Incan: 20A	1	Y	Y	Y**	3
	LMRC-112	2-Relay Dimming Room Controller	120/277VAC	E-Ballast: 10A Ballast: 10A Incan: 10A	2	Y	Y	Y	2
	LMRC-112-M	2-Relay Dimming Room Controller with metering	120/277VAC	E-Ballast: 10A Ballast: 10A Incan: 10A	2	Y	Y	Y**	2
	LMRC-211*	1-Relay Dimming Room Controller with Current Monitoring	120/277VAC or 347VAC*	E-Ballast: 16A Ballast: 20A Incan: 20A Motor: 1HP	1	Y	Y	Y	4
	LMRC-212*	2-Relay Dimming Room Controller with Current Monitoring	120/277VAC or 347VAC*	E-Ballast: 16A Ballast: 20A Incan: 20A Motor: 1HP	2	Y	Y	Y	4
	LMRC-213*	3-Relay Dimming Room Controller with Current Monitoring	120/277VAC or 347VAC*	E-Ballast: 16A Ballast: 20A Incan: 20A Motor: 1HP	3	Y	Y	Y	4
WIRELESS									
	LMRC-611-16M	Wireless 1-Relay Dimming Room Controller with Metering	120/277VAC	E-Ballast: 16A Ballast: 16A Incan: 16A	1	Y	Y	Y**	N/A
	LMRC-611-MCC	Wireless 1-Relay Dimming Room Controller with Contact Input, Metering	120/277VAC	E-Ballast: 10A Ballast: 10A Incan: 10A	1	Y	Y	Y**	N/A
	LMRC-611MCC-A	Wireless 1-Relay Dimming Room Controller with Contact Input, Metering, External Antenna	120/277VAC	E-Ballast: 10A Ballast: 10A Incan: 10A	1	Y	Y	Y**	N/A

**347 Options: 15A Ballast Only*
*** Current and Voltage*

Load Controllers *cont.*

	PART NUMBER	DESCRIPTION	VOLTAGE	LOAD RATINGS	RELAYS	ON/OFF SWITCHING	0-10V DIMMING	ENERGY MONITORING	RJ45 PORTS
PLUG LOAD CONTROLLERS									
	LMPL-101	1-Relay Plug Load Controller with Current Monitoring	120VAC	Relay: 20A Motor: 1 HP	1	Y	N	N	3
	LMPL-111-20M	1-Relay Plug Load Controller with Metering	120V	Relay: 20A Motor: 1 HP	1	Y	N	Y	2
	LMPL-201	1-Relay Plug Load Controller with Current Monitoring	120V	Relay: 20A Motor: 1 HP	1	Y	N	Y	4
WIRELESS									
	LMPL-611-20M	Wireless 1-Relay Plug Load Controller with Metering	120V	Relay: 20A Motor: 1 HP	1	Y	N	Y	N/A
RECEPTACLE CONTROLLERS									
	WRC-15-1	Plug Load Half Controlled Receptacle	125VAC	15A	1	Y	N	N	N/A
	WRC-15-2	Plug Load Dual Controlled Receptacle	125VAC	15A	1	Y	N	N	N/A
	WRC-20-1	Plug Load Half Controlled Receptacle	125VAC	20A	1	Y	N	N	N/A
	WRC-20-2	Plug Load Dual Controlled Receptacle	125VAC	20A	1	Y	N	N	N/A
	WRC-TX-LM	Plug Load RF Transmitter	24VDC; 3mA	N/A	1	Y	N	N	1

Interface Devices

	PART NUMBER	DESCRIPTION	VOLTAGE	RJ45 PORTS	FUNCTION
INTERFACES					
	LMRL-100	Isolated Relay Interface	24VDC; 7mA	2	Single-pole, double throw relay communicates room occupancy status
	LMOR-102	Low Voltage Dual Relay Interface	24VDC; 10mA	2	Provide a dry contact closure for any device that uses 0-24V AC/DC based on occupancy, schedules, manual control, and more
	LMDI-100	Serial Data Interface	24VDC; 20mA	2	Communicates with 3rd party control system via RS-232 signals
	LMIN-104	Low Voltage Input Interface	24VDC; 20mA	2	Input interface for integration of third party devices
	LMAC-131-M	Phase Adaptive Auxiliary Dimming Controller	120/277 VAC; 8mA	2	Supports reverse and forward phase dimming with automatic load type detection
	LMSI-DMX	DMX Controller	24VDC; 36mA	2	Enables integration of 6-channel DMX-controlled fixtures into DLM control systems

Fixture Integrated Controls

	PART NUMBER	DESCRIPTION	VOLTAGE	RJ45 PORTS	FUNCTION
INTEGRATED CONTROLS					
	LMFC-011	1-Relay 0-10V Dimming Fixture Controller	24VDC; 7mA	N/A	Enables DLM individual fixture control: 3 Amps
	LMFC-2RJ	Dual Port Fixture Mounted Cable Whip	120/277/347VAC	2	Provides DLM network control between multiple fixtures
	LMFCRJ-50-24	Single Port Fixture Mounted Cable Whip	120/277/347VAC	1	Provides DLM network control to a single LMFC
WIRELESS					
	LMFS-601-W	Wireless PIR Fixture Sensor and Controller	12-20VDC; 16mA	N/A	Integrated DALI Fixture Sensor and Controller, Occupancy, Daylight Harvesting, and IPv6/Bluetooth
	LMFI-111	Power Converter - Used in Conjunction with LMFS-601	120/277V; 10mA	N/A	Allows LMFS-601 to connect to a fixture's 0-10V LED driver to control light levels

Configuration Tools

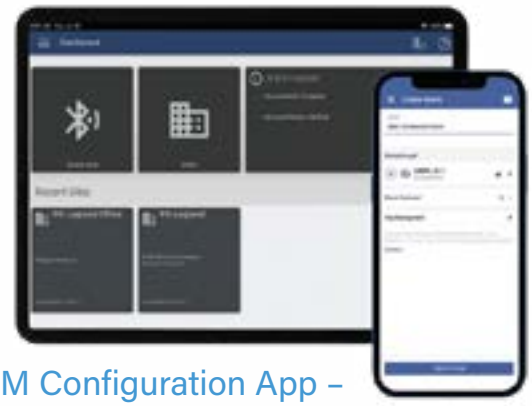
	PART NUMBER	DESCRIPTION	VOLTAGE	FUNCTION
INTERFACES				
	LMCT-100-2	Wireless Configuration Tool	3 AAA batteries	Enables convenient system and device modifications via push button Stores up to nine sensor profiles
	LMCI-100	Computer Interface Tool	Connects to a PC's USB port	Enables PC connection to DLM local network to modify or document device and system settings in LMCS software (depending on setting)
SOFTWARE & APPS				
	LMCS-100	Computer Interface Software	N/A	Features an intuitive user interface (UI) to identify current DLM system settings, allowing users to easily read, store, and modify settings
	DLM Configuration App	Available at both Android and Apple Store	N/A	Wireless Systems use the DLM App for setting up individual rooms

Monitor, Configure & Manage

Digital Lighting Management

Lighting Management Commissioning Software – Desktop Application

LMCS provides the ability schedule scenes, implement load control, adjust preset levels of devices, run reports, and review BACnet tables. Training is available for this platform, or Service Contract customer can contact our Remote Operations team for virtual adjustment requests.



DLM Configuration App – Mobile App

Wirelessly scan, discover, pair, and configure wireless DLM systems and scenes with ease using your mobile device or tablet with the Wireless Digital Lighting Management (DLM) Configuration app. Establish and manage DLM wireless rooms across a project. No additional hardware or tools are needed to commission code-compliant, secure spaces.

GET IT ON Google Play

Download on the App Store

Network System Components

	PART NUMBER	DESCRIPTION	VOLTAGE	FUNCTION
NETWORK BRIDGE				
	LMBC-300	Wired Network Bridge	24VDC; 30mA	Provides MS/TP BACnet segment wire connectivity to one DLM local network
WIRELESS BRIDGE				
	LMBC-650	Wireless Network Bridge with Bluetooth Low Energy Technology	24VDC; 20mA	Provides room-to-room network connectivity and allows wireless switches and occupancy sensors to join a wired DLM room
SEGMENT MANAGER				
	LMJA-9125-SM	DLM Network Controller, up to 125 Rooms, includes first year software maintenance	24VAC or 24VDC capable of supplying at least 1A	A Network Controller designed to communicate with Wired and Wireless DLM Network Bridges for local in-room wired networks and/or LMCP panels
	LMJA-9300-SM	DLM Network Controller, up to 300 Rooms, includes first year software maintenance	24VAC or 24VDC capable of supplying at least 1A	A Network Controller designed to communicate with Wired and Wireless DLM Network Bridges for local in-room wired networks and/or LMCP panels
	LMJA-SUPx-SMA-18 x is number of Jace connections, available options are 1,2,3,10, UNL (unlimited)	N4 Segment Manager Supervisor Software, includes first year software maintenance	N/A	Ideal software solutions for managing lighting and plug load energy use and provides remote access to DLM local networks
SWITCHES				
	NB-Switch	5-Port Ethernet Switch	24VDC via 120V plug adapter	Provide high speed connectivity for Digital Lighting Management (DLM) networked systems
	NB-Switch-8	8-Port Ethernet Switch	24VDC via 120V plug adapter	Provide high speed connectivity for Digital Lighting Management (DLM) networked systems
	NB-Switch-16	16-Port Ethernet Switch	24VDC via 120V plug adapter	Provide high speed connectivity for Digital Lighting Management (DLM) networked systems
ROUTERS				
	NB-Router	Segment Network to IP Router	24VDC via 120V plug adapter	Provides a connection point between a single DLM segment wire and a BACnet/IP Ethernet LAN
ZONE CONTROLLER				
	LMZC-301	Zone Controller, provides 2 channels of 24VDC; 250mA	120/277VAC	Provides local network power for LMFCs plus any other DLM devices and scheduling
POWER BOOSTER				
	LMPB-100	Power Booster, provides 150mA	120/277VAC	Provides local network power for LMFC controllers plus any other DLM devices

Lighting Control Panels

	PART NUMBER	DESCRIPTION	RELAYS	VOLTAGE
CONTROL PANELS				
	LMCP8	Relay Panel Interior & Enclosure: 2 Channels of 24VDC; 250mA	8	120/277 60Hz; 120/347V, 60Hz
	LMCP24	Relay Panel Interior & Enclosure: 2 Channels of 24VDC; 250mA	24	120/277 60Hz; 120/347V, 60Hz
	LMCP48	Relay Panel Interior & Enclosure: 2 Channels of 24VDC; 250mA	48	120/277 60Hz; 120/347V, 60Hz
0-10V DIMMING				
	LMCP8-10V	Relay Panel Interior & Enclosure: Includes 0-10V dimming	8	120/277 60Hz; 120/347V, 60Hz
	LMCP24-10V	Relay Panel Interior & Enclosure: Includes 0-10V dimming	24	120/277 60Hz; 120/347V, 60Hz
	LMCP48-10V	Relay Panel Interior & Enclosure: Includes 0-10V dimming	48	120/277 60Hz; 120/347V, 60Hz

Enclosures

	PART NUMBER	DESCRIPTION	VOLTAGE	FUNCTION
ENCLOSURES				
	LMNC-ENC1	Small Network Enclosure	Single 120VAC Circuit	Surface-mount NEMA-1 rated enclosure with a DIN-rail for mounting one LMJA-9xx-SM network controller, includes removable cover
	LMNC-SM-KIT* *For additional options use Small network enclosure kit part number, configurable in quote tool.			
	LMNC-x x: Number of Routers (0-9)	Large Network Enclosure with up to 9 installed BACnet routers and option to add 5, 8, or 16 network switch ports.	Single 120VAC Circuit	Surface-mount NEMA-1 rated enclosure with DIN rails for mounting DLM network components, includes hinged cover
	LMNC-LG-KIT* *For additional options use Large network enclosure kit part number, configurable in quote tool.			

Accessories

	PART NUMBER	DESCRIPTION	FUNCTION
COUPLERS & SPLITTERS			
	LMRJ-C8	**2 Port End-to-End Cable Coupler Non-Plenum**	**Ability to connect two LMRJ cables to extend length**
	LMRJ-S8	**3 Port Cable Coupler/Splitter Non-Plenum**	**Ability to connect three LMRJ cables or devices**
	LMRJ-CS8	**3 Port Coupler/ Splitter Plenum rated**	**Ability to connect three LMRJ cables or devices**

Cables

	PART NUMBER	DESCRIPTION	LENGTH	COLOR	PLENUM RATED
SEGMENT NETWORK WIRE					
	LM-MSTP-x x: Length in Ft.	**Segment Network Wire**	**1 ft*, 1000 ft, 2000 ft, 4000 ft options**	**Green**	**Y**
PRE-TERMINATED CABLES					
	LMRJ-Pxx xx: Length in Ft.	**RJ45 Cable Non-Plenum**	**6 inches, 3, 10, 15, 25, 50, 100 ft**	**Green**	**N**
	LMRJ-Pxx xx: Length in Ft.	**RJ45 Plenum Rated**	**1, 3, 10, 15, 25, 35, 50, 75, 100 ft**	**Green, White**	**Y**

* available in additional colors: White & Black

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