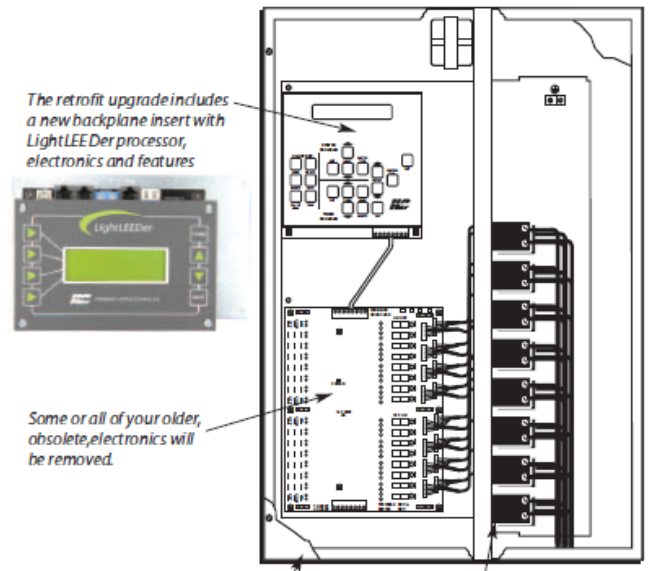


ILC LightLEEDer Upgrade and Retrofit

Retrofit outdated or obsolete hardware
Updates RSX, Quanta Elite, LightMaster,

Retrofit Package



The retrofit upgrade includes a new backplane insert with LightLEEDer processor, electronics and features

Some or all of your older, obsolete, electronics will be removed.

SAVINGS: The existing enclosure does not need to be removed

SAVINGS: The existing relays and line voltage wiring can remain intact.

Competitor systems:

LightLEEDer - 24 - 40 - 48 Microlite Retrofit Insert

LightLEEDer - 12 - 24 - 32 - 48 GE Retrofit Insert

LightLEEDer - 8/16 - 24/32 - 40/48 PCI Retrofit Insert

Retro Quick Chart

RSX -TR Panel	RSX Retro Interface	97013533	Keep RSX-I/O and TR120/TR277 relays
	LL-CPU	97013490	
	LL-Keypad	97013496	
	Backplate - CPU/Retro Interface	78001705	
	Transformer (1)	52201125	
	Power distribution Module	97013497	
	LM-I/O	97013426	* Replace I/O with LM type
	LL-CPU	97013490	
	LL-Keypad	97013496	
	Backplate complete interior	by size	3x
	Transformer (2)	52201125	Retrofit backplane, 1-LL CPU and 2-I/O's (16)
	Power distribution Module	97013497	Retrofit backplane, 1-LL CPU and 4-I/O's (24/32)
	2R9C relays	93003025	Retrofit backplane, 1-LL CPU and 6-I/O's (40/48)
			78001584
			78001585
			78001586
RSX -2R9 Panel	RSX Retro Interface	78001588	Keep RSX-I/O and 2R9c relays
	LL-CPU	97013490	
	LL-Keypad	97013496	
	Backplate - CPU/Interface	78001705	
	Transformer (1)	52201125	
	Power distribution Module	97013497	
	LM-I/O	97013533	* Replace I/O with LM type
	LL-CPU	97013490	
	LL-Keypad	97013496	
	Backplate for mounting	by size	3x
	Transformer (2)	52201125	Retrofit backplane, 1-LL CPU and 2-I/O's (16)
	Power distribution Module	97013497	Retrofit backplane, 1-LL CPU and 4-I/O's (24/32)
			Retrofit backplane, 1-LL CPU and 6-I/O's (40/48)
			78001584
			78001585
			78001586
QE Panel	QE Retro Interface	97013524	Keep QE-I/O and relays
	LL-CPU	97013490	
	LL-Keypad	97013496	
	Backplate - CPU/Retro Interface	78001588	
	QE-I/O (1)	97013323	1-New I/O needed for each panel (1st I/O was part of QE-CPU)
	Transformer (1)	52201125	
	Power distribution Module	97013497	
	LM-I/O	97013426	* Replace I/O with LM type
	LL-CPU	97013490	
	LL-Keypad	97013496	
	Backplate CPU	78001588	
	Transformer (1)	52201125	
	Power distribution Module	97013497	
LM Panel	LL-CPU	97013490	1-LL/LM Ribon cable to 1st I/O
	LL-Keypad	97013496	
	Backplate - LL-CPU	78001576	
	Transformer (1)	52201125	
	Power distribution Module	97013497	

ILC Quanta RSX Panel w/TR - Relays Upgrade to LightLEEDer

Existing RSX Relay panel with TR-120/277 relays
 RSX 1000 (SA), RSX 1500 (NET), ILC 1000 (SA) models

TR-120/277 relays

RSX I/O boards and Transformer Relays to be re-used

RSX Retro Interface	97013533	Interface module for LL to RSX I/O board control
LL-CPU	97013490	<i>New</i> LightLEEDer CPU
LL-Keypad	97013496	<i>New</i> LightLEEDer Keypad
Backplate - CPU/Retro Interface	78001705	Conversion backplate for LL-CPU & Retro Interface - fits in RSX CPU location
Transformer (1)	52201125	NEW transformer for LL-CPU - <i>Existing RSX transformer used for I/O</i>
Power distribution Module	97013497	For CPU power protection

Upgrade to LM I/O and 2R9C relays in panel

LM-I/O	97013426	<i>New</i> LightLEEDer I/O boards (8 relay each)
LL-CPU	97013490	<i>New</i> LightLEEDer CPU
LL-Keypad	97013496	<i>New</i> LightLEEDer Keypad
Transformer (2)	52201125	<i>New</i> LightLEEDer Transformers Two required for: CPU & I/O
Power Distribution Module	97013497	For CPU power protection
2R9C relays *	93003025	<i>New</i> 2R9c Relay to replace existing TR in panel

Backplate complete interior *by size*

3 size interior backplates for CPU & LM-I/O on one plate:

Retrofit backplane, 1-LL CPU and 2-I/O's (16)	78001584
Retrofit backplane, 1-LL CPU and 4-I/O's (24/32)	78001585
Retrofit backplane, 1-LL CPU and 6-I/O's (40/48)	78001586

LL-EVO-4X/8X remote RC type controller & R20/R20D remote relays

LL-EVO-4X	LL-EVO-4X	<i>New</i> LightLEEDer EVO 4X controller (supports 4 - R20D relays)
LL-EVO-8X	LL-EVO-8X	<i>New</i> LightLEEDer EVO 8X controller (supports 8 - R20D relays)
R20 relays	93011214	<i>New</i> R20 Relay to replace existing remote TR relays
R20D relays	93011215	<i>New</i> R20D Relay to replace existing remote TR relays

Note:

Existing remote mounted TR120/277 relays to be replaced by R20/R20D relay
 EVO-4X/8X controllers needed to operate the new remote relays
New CAT-5 Data cable required for Local-Bus link to EVO-4X/8X controllers and from 4X/8X to remote R20/R20D relays
 Existing Despard switches (PCS/MCS) or NFP switches to can be reused - Requires addition of LS-IM input modules
 NFP switches with LED will require a *New* LED and possible re-wiring at switch end

New CAT-5 between panels & LL-NCA Network Controller (Replace Global Module)
 Replace Computer DOS/Win-98 software, RSI (PSRx2)

Options:

Spare R20 relays	93011214
Spare R20D relays	93011215
* Spare 2R9C relays	93003025
Spare TR120 relays	93000315
Spare TR120A relays	93000320
Spare TR277 relays	93000325
Spare TR277A relays	93000330
DCO-MOM (QE/LM-only)	97013403

(no Longer available)

Note:

Original NFP switch stations with LED status can be re-used with LM I/O boards but require field wiring changes and replacment of LEDs (93000376) & Snap-N-Clamp holder (72722003)

ILC Quanta RSX Panel w/2R9C - Upgrade to LightLEEDer

Existing RSX Relay panel with 2R9C relays RSX 1000 (SA), RSX 1500 (NET), ILC 1000 (SA) models

2R9c relays

RSX I/O boards and existing 2R7EZ/2R9EZ/2R7C/2R9C Relays to be re-used

RSX Retro Interface	97013533	Interface module for LL to RSX I/O board control
LL-CPU	97013490	New LightLEEDer CPU
LL-Keypad	97013496	New LightLEEDer Keypad
Backplate - CPU/Interface	78001705	Backplate for CPU - Fits in existing location
Transformer (1)	52201125	NEW transformer for LL-CPU - Existing RSX transformer used for I/O
Power distribution Module	97013497	For CPU power protection

Upgrade to LM I/O and 2R9C relays

LM-I/O	97013426	New LightLEEDer I/O boards (8 relays each)
LL-CPU	97013490	New LightLEEDer CPU
LL-Keypad	97013496	New LightLEEDer Keypad
Transformer (2)	52201125	New LightLEEDer Transformers Two required for: CPU & I/O
Power distribution Module	97013497	For CPU power protection
2R9C relays *	93003025	New 2R9c Relay to replace existing (2R7EZ/2R9EZ - spade connector)
Backplate - complete interior	by size	

3 size interior backplates For CPU & LM I/O on one plate:

Retrofit backplane, 1-LL CPU and 2-I/O's (16)	78001584
Retrofit backplane, 1-LL CPU and 4-I/O's (24/32)	78001585
Retrofit backplane, 1-LL CPU and 6-I/O's (40/48)	78001586

** LL-EVO-4X/8X remote RC type controller & R20/R20D remote relays

LL-EVO-4X	LL-EVO-4X	New LightLEEDer EVO 4X controller (supports 4 - R20D relays)
LL-EVO-8X	LL-EVO-8X	New LightLEEDer EVO 8X controller (supports 8 - R20D relays)
R20 relays	93011214	New R20 Relay to replace existing remote TR relays
R20D relays	93011215	New R20D Relay to replace existing remote TR relays

Note:

New CAT-5 Data cable required for network link to other panels replacing Twisted Pair (Carol-C2534)
 New CAT-5 between panels & LL-NCA Network Controller (Replace Global Module)

New CAT-5 Data cable required for Local-Bus link to EVO-4X/8X controllers and from 4X/8X to remote R20/R20D relays
 EVO-4X/8X controllers needed to operate the new remote relays
 Existing Despard switches (PCS/MCS) or NFP switches to can be reused - Requires addition of LS-IM input modules
 NFP switches with LED will require a New LED and possible re-wiring at switch end

New LightSync Switches to replace existing
 New CAT-5 cable to LS switches, may require PSR, or PS-HUB

Options:

Spare R20 relays	93011214
Spare R20D relays	93011215
* Spare 2R9C relays	93003025

Note:

Original NFP switch stations with LED status can be re-used with LM I/O boards but require field wiring changes and replacment of LEDs (93000376) & Snap-N-Clamp holder (72722003)

ILC Quanta RSX Panel Upgrade to LightLEEDer - Assembly

Existing RSX Relay panel with 2R9C relays RSX 1000 (SA), RSX 1500 (NET), ILC 1000 (SA) models

RSX-16 Panel Upgrade	LLRSXRI-16	Full Insert Assembly
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Includes:

Backplate, Screws, Transformer(2), Cables

LL-CPU, Keypad, LM-I/O, Labels, HV-barriers/dividers

RSX-32 Panel Upgrade	LLRSXRI-32	Full Insert Assembly
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Includes:

Backplate, Screws, Transformer, Cables

LL-CPU, Keypad, LM-I/O, Labels, HV-barriers/dividers

RSX-48 Panel Upgrade	LLRSXRI-48	Full Insert Assembly
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Includes:

Backplate, Screws, Transformer, Cables

LL-CPU, Keypad, LM-I/O, Labels, HV-barriers/dividers

Re-Use existing or Replace relays

2R9C relays	93003025	Not Included in Kit - add As Needed
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Note:

Flat Backplate only - No relay divider

New CAT-5 Data cable required for network link to other panels replacing Twisted Pair (Carol-C2534)

New CAT-5 between panels & LL-NCA Network Controller (Replace Global Module)

Existing Despard switches (PCS/MCS) or NFP switches to can be reused - Requires addition of LS-IM input modules

NFP switches with LED will require a New LED and possible re-wiring at switch end

New LightSync Switches to replace existing

New CAT-5 cable to LS switches, may require PSR, or PS-HUB

Original NFP switch stations with LED status

can be re-used with LM I/O boards but require field wiring

changes and replacment of LEDs (93000376)

& Snap-N-Clamp holder (72722003)

ILC Quanta Elite Panel w/TR Relays - Upgrade to LightLEEDer

Existing QE w/TR-Relay & DCO interface cards to operate remote mount TR relays

TR-120/277 relays & DCO-MOM

Previous upgrade from Older RSX with remote TR relays

QE I/O boards and Transformer Relays w/DCO to be re-used

QE Retro Interface	97013524
LL-CPU	97013490
LL-Keypad	97013496
Backplate - CPU/Retro Interface	78001588
QE I/O board	97013323
Transformer (1)	52201125
Power distribution Module	97013497

Interface module for LL to QE I/O board control
 New LightLEEDer CPU
 New LightLEEDer Keypad
 Conversion backplate for LL-CPU & Retro Interface - fits in QE CPU location
 New QE I/O for first I/O location
 NEW transformer for LL-CPU - Existing QE transformer used for I/O
 For CPU power protection

Upgrade to LM I/O and panel mounted 2R9C relays

LM-I/O	97013426
LL-CPU	97013490
LL-Keypad	97013496
Transformer (1)	52201125
Power Distribution Module	97013497
2R9C relays *	93003025
Backplate CPU	78001588

New LightLEEDer I/O boards (8 relay each)
 New LightLEEDer CPU
 New LightLEEDer Keypad
 NEW transformer for LL-CPU - Existing QE transformer used for I/O
 For CPU power protection
 New 2R9C Relay to replace existing TR "in panel only"

Retrofit backplane, 1-LL CPU and 2-I/O's (16)	78001584
Retrofit backplane, 1-LL CPU and 4-I/O's (24/32)	78001585
Retrofit backplane, 1-LL CPU and 6-I/O's (40/48)	78001586

LL-EVO-4X/8X remote RC type controller & R20/R20D remote relays

LL-EVO-4X	LL-EVO-4X
LL-EVO-8X	LL-EVO-8X
R20 relays	93011214
R20D relays	93011215

New LightLEEDer EVO 4X controller (supports 4 - R20D relays)
 New LightLEEDer EVO 8X controller (supports 8 - R20D relays)
 New R20 Relay to replace existing remote TR relays
 New R20D Relay to replace existing remote TR relays

Note:

Existing remote mounted TR120/277 relays to be replaced by R20/R20D relay

EVO-4X/8X controllers needed to operate the new remote relays

New CAT-5 Data cable required for Loxcal-Bus link to EVO-4X/8X controllers and from 4X/8X to remote R20/R20D relays

Existing Despard switches (PCS/MCS) or NFP switches to can be reused - Requires addition of LS-IM input modules
 NFP switches with LED will require a New LED and possible re-wiring at switch end

New CAT-5 between panels & LL-NCA Network Controller (Replace Global Module)

Replace Computer DOS/Win-98 software, RSI (PSRx2)

Options:

Spare R20 relays	93011214
Spare R20D relays	93011215
* Spare 2R9C relays	93003025
Spare TR120 relays	93000315
Spare TR120A relays	93000320
Spare TR277 relays	93000325
Spare TR277A relays	93000330
DCO-MOM (QE/LM-only)	97013403

Note:

Original NFP switch stations with LED status can be re-used with LM I/O boards but require field wiring changes and replacment of LEDs (93000376) & Snap-N-Clamp holder (72722003)
 (no Longer available)

ILC Quanta Elite Panel w/2R9C - Upgrade to LightLEEDer

Existing QE w/2R9C Relay

2R9C Relays

QE I/O boards and existing 2R7C / 2R9C Relays to be re-used

QE Retro Interface	97013524	Interface module for LL to QE I/O board control
LL-CPU	97013490	New LightLEEDer CPU
LL-Keypad	97013496	New LightLEEDer Keypad
Backplate - CPU/Retro Interface	78001588	Conversion backplate for LL-CPU & Retro Interface - fits in QE CPU location
Transformer (1)	52201125	NEW transformer for LL-CPU - Existing QE transformer used for I/O
Power distribution Module	97013497	For CPU power protection

Upgrade to LM I/O and 2R9C relays

LM-I/O	97013426	New LightLEEDer I/O boards (8 relays each)
LL-CPU	97013490	New LightLEEDer CPU
LL-Keypad	97013496	New LightLEEDer Keypad
Transformer (1)	52201125	NEW transformer for LL-CPU - Existing QE transformer used for I/O
Power distribution Module	97013497	For CPU power protection
Backplate CPU	78001588	

LL-EVO-4X/8X remote RC type controller & R20/R20D remote relays

LL-EVO-4X	LL-EVO-4X	New LightLEEDer EVO 4X controller (supports 4 - R20D relays)
LL-EVO-8X	LL-EVO-8X	New LightLEEDer EVO 8X controller (supports 8 - R20D relays)
R20 relays	93011214	New R20 Relay to replace existing remote TR relays
R20D relays	93011215	New R20D Relay to replace existing remote TR relays

Note:

Optional remote mounted R20/R20D relay

EVO-4X/8X controllers needed to operate the new remote relays

New CAT-5 Data cable required for Local-Bus link to EVO-4X/8X controllers and from 4X/8X to remote R20/R20D relays

Existing Despard switches (PCS/MCS) or NFP switches to can be reused - Requires addition of LS-IM input modules

NFP switches with LED will require a New LED and possible re-wiring at switch end

New CAT-5 between panels & LL-NCA Network Controller (Replace QE-LAN)

Replace Computer Win-98-XP software, RSI (PSRx2)

Options:

Spare R20 relays	93011214
Spare R20D relays	93011215
* Spare 2R9C relays	93003025

Note:

Original NFP switch stations with LED status can be re-used with LM I/O boards but require field wiring changes and replacment of LEDs (93000376) & Snap-N-Clamp holder (72722003)

ILC LightMaster Panel Upgrade to LightLEEDer

Existing LM w/2R9C Relay

2R9C Relays

Use existing LM I/O and 2R9C relays

LL-CPU	97013490
LL-Keypad	97013496
Transformer (1)	52201125
Backplate CPU	78001576
Power distribution Module	97013497

New LightLEEDer CPU
 New LightLEEDer Keypad
NEW transformer for LL-CPU - Existing LM transformer used for I/O
 Conversion backplate for LL-CPU - fits in LM CPU location
 For CPU power protection

LL-EVO-4X/8X remote RC type controller & R20/R20D remote relays

LL-EVO-4X	LL-EVO-4X
LL-EVO-8X	LL-EVO-8X
R20 relays	93011214
R20D relays	93011215

New LightLEEDer EVO 4X controller (supports 4 - R20D relays)
 New LightLEEDer EVO 8X controller (supports 8 - R20D relays)
 New R20 Relay to replace existing remote TR relays
 New R20D Relay to replace existing remote TR relays

LL-2RC/4RC/4X are also compatible as RC type expansion controllers

Note:

Optional remote mounted R20/R20D relay

EVO-4X/8X controllers needed to operate the new remote relays

New CAT-5 Data cable required for Local-Bus link to EVO-4X/8X controllers and from 4X/8X to remote R20/R20D relays

New CAT-5 between panels & New LL-NCA Network Controller if networked systems

Replace Computer Win-XP, 7, 10 software

Options:

Spare R20 relays	93011214
Spare R20D relays	93011215
* Spare 2R9C relays	93003025

ILC LightMaster-4 Dim Panel Upgrade to LightLEEDer

Existing LM-4 Dim w/2R9C Relay (Enet-Dim operation)

2R9C Relays

*** Use existing 2R9C relays**

LLLM-4-R	97013587
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LightLEEDer LM-4 - Retro, CPU for 2R9c Retro
 Uses existing LM-4 enclosure, Transformer, 2R9C relays
 Has Dimmer and matching switch inputs

Note:

Existing Transformer (8/16VAC) to be re-used
 Existing 2R9C relay to be re-used
 Operates as a EVO panel in a LightLEEDer network

**** LL-EVO-4X/8X remote RC type controller & R20/R20D remote relays**

LL-EVO-4X	LL-EVO-4X
LL-EVO-8X	LL-EVO-8X
R20 relays	93011214
R20D relays	93011215

New LightLEEDer EVO 4X controller (supports 4 - R20D relays)
New LightLEEDer EVO 8X controller (supports 8 - R20D relays)
New R20 Relay to replace existing remote TR relays
New R20D Relay to replace existing remote TR relays

LL-2RC/4RC/4X are also compatible as RC type expansion controllers

Note:

Optional remote mounted R20/R20D relay
 EVO-4X/8X controllers needed to operate the new remote relays
New CAT-5 Data cable required for Local-Bus link to EVO-4X/8X controllers
 and from 4X/8X to remote R20/R20D relays

New CAT-5 between panels & LL-NCA Network Controller for networked systems

LL-NCA-HLD	LL NCA-HLD
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Network Controller Advanced - Hinged Locking Door
 Replace Computer Win-XP/7 software, (May require a PSR at LL-NCA)

Options:

* Spare 2R9C relays	93003025
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Spare LMT-16	52201130
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LM-4Dim Transformer replacment (8/16VAC-28VA)

MicroLite Panel Upgrade to LightLEEDer

Microlite 16, 24, 40, 48 panels and Microlite 50 8-relay panel

Microlite 16 Retro Insert	LLMRI-16	Full Insert Fits Microlite 16 relay enclosure
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Includes:

Backplate, Screws, Transformer, Cables
 LL-CPU, Keypad, LL Addressable Relay driver, Labels,
 Labels, HV-barriers/dividers

Microlite 32 Retro Insert	LLMRI-32	Full Insert Fits Microlite 32 relay enclosure
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Includes:

Backplate, Screws, Transformer, Cables
 LL-CPU, Keypad, LL Addressable Relay driver, Labels,
 Labels, HV-barriers/dividers

Microlite 40 Retro Insert	LLMRI-40	Full Insert Fits Microlite 40 relay enclosure
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Includes:

Backplate, Screws, Transformer, Cables
 LL-CPU, Keypad, LL Addressable Relay driver, Labels,
 Labels, HV-barriers/dividers

Microlite 48 Retro Insert	LLMRI-48	Full Insert Fits Microlite 48 relay enclosure
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Includes:

Backplate, Screws, Transformer, Cables
 LL-CPU, Keypad, LL Addressable Relay driver, Labels,
 Labels, HV-barriers/dividers

Microlite "50" Retro Insert	LL-8XRI	Full Insert Fits Microlite 8 relay enclosure
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Includes:

Backplate, Screws, Transformer, Cables
 LL-CPU, Keypad, LL 4X Relay driver (2), Labels,
 Labels, HV-barriers/dividers

R40-1 relays	92040194	Not Included in above Inserts - <u>add per job requirements</u>
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Note:

Full Backplate with Transformer and Relay mounting

New CAT-5 Data cable required for network link to other panels replacing existing microlite Twisted Pair

New CAT-5 between panels & LL-NCA Network Controller and panels, may require a PSR

New LightSync Switches to replace existing

New CAT-5 cable to LS switches, may require PSR, or PS-HUB

GE Panel Upgrade to LightLEEDer

General Electric, GE - 12, 24, 32, 48 panels

GE, Horton Controls, GE-Total Lighting Control(GE-TLC), GE ProSys II, GE-ProSys LM)

Wattstopper-Total Control (LMCP),

Wattstopper-Lagrand Lighting Management Control Panel (LMCP)

LeGrand Lighting Intigrator, Complete Control (LI, LIC & LICA, EM Panel-LENC)

GE-12 Retro Insert	LLGERI-12
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Full Insert Fits GE RTUB-12 relay enclosure
(16"H x 16.5"W x 4.5"D)

Includes:

Backplate, Screws, Transformer, Cables

LL-CPU, Keypad, LL Addressable Relay driver, Labels,

Labels, HV-barriers/dividers

GE-24 Retro Insert	LLGERI-24
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Full Insert Fits GE RTUB24 relay enclosure
(22.5"H x 24"W x 4.5"D)

Includes:

Backplate, Screws, Transformer, Cables

LL-CPU, Keypad, LL Addressable Relay driver, Labels,

Labels, HV-barriers/dividers

GE-32 Retro Insert	LLGERI-32
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Full Insert Fits GE RTUB-32 relay enclosure
(22"H x 18"W x 4.5"D)

Includes:

Backplate, Screws, Transformer, Cables

LL-CPU, Keypad, LL Addressable Relay driver, Labels,

Labels, HV-barriers/dividers

GE-48 Retro Insert	LLGERI-48
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Full Insert Fits GE RTUB-48 relay enclosure
(36"H x 24"W x 4.5"D)

Includes:

Backplate, Screws, Transformer, Cables

LL-CPU, Keypad, LL 4X Relay driver (2), Labels,

Labels, HV-barriers/dividers

R40-1 relays	92040194
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Not Included in above Inserts - add per job requirements

Note:

Full Backplate with Transformer and Relay mounting

New CAT-5 Data cable required for network link to other panels replacing existing microlite Twisted Pair

New CAT-5 between panels & LL-NCA Network Controller and panels, may require a PSR

New LightSync Switches to replace existing

New CAT-5 cable to LS switches, may require PSR, or PS-HUB

Existing GE switches may be re-used (Status Light not supported)

Suggest converting to NFP or LightSync

PCI Panel Upgrade to LightLEEDer

PCI- LightKeeper, SwitchKeeper, WatchKeeper, DMXKeeper, ControlKeeper - 8/16, 24/32 panels
 PCI (Powerline Communication Inc) also sold as a Leviton, Eaton, GreenGate or Cooper product

LL-PCI-8 Retro Insert LLPCIRI-8 Controller assembly and (1) 8-Relay Insert set
 Retro Top Processor backplate for CPU, LL-CPU, LL-Keypad, Stand-offs & Screws, ILC-Transfomer, Cables
 One 8-Relay LL-PCI-Retro Output Backplate for 8 relays, LL-Relay Driver module, (8) R40-1 relays, screws, Cables
 Labels, HV-barriers/dividers

LL-PCI-16 Retro Insert LLPCIRI-16 Controller assembly and (2) 8-Relay Insert sets
 Retro Top Processor backplate for CPU, LL-CPU, LL-Keypad, Stand-offs & Screws, ILC-Transfomer, Cables
 Two 8-Relay LL-PCI-Retro Output Backplate for 8 relays, LL-Relay Driver module, (16) R40-1 relays, screws, Cables
 Labels, HV-barriers/dividers

LL-PCI-24 Retro Insert LLPCIRI-24 Controller assembly and (3) 8-Relay Insert sets
 Retro Top Processor backplate for CPU, LL-CPU, LL-Keypad, Stand-offs & Screws, ILC-Transfomer, Cables
 Three 8-Relay LL-PCI-Retro Output Backplate for 8 relays, LL-Relay Driver modules, (24) R40-1 relays, screws, Cables
 Labels, HV-barriers/dividers

LL-PCI-32 Retro Insert LLPCIRI-32 Controller assembly and (4) 8-Relay Insert sets
 Retro Top Processor backplate for CPU, LL-CPU, LL-Keypad, Stand-offs & Screws, ILC-Transfomer, Cables
 Four 8-Relay LL-PCI-Retro Output Backplate for 8 relays, LL-Relay Driver module, (32) R40-1 relays, screws, Cables
 Labels, HV-barriers/dividers

LL-PCI-40 Retro Insert LLPCIRI-40 Controller assembly and (5) 8-Relay Insert sets
 Retro Top Processor backplate for CPU, LL-CPU, LL-Keypad, Stand-offs & Screws, ILC-Transfomer, Cables
 Five 8-Relay LL-PCI-Retro Output Backplate for 8 relays, LL-Relay Driver module, (40) R40-1 relays, screws, Cables
 Labels, HV-barriers/dividers

LL-PCI-48 Retro Insert LLPCIRI-48 Controller assembly and (6) 8-Relay Insert sets
 Retro Top Processor backplate for CPU, LL-CPU, LL-Keypad, Stand-offs & Screws, ILC-Transfomer, Cables
 Six 8-Relay LL-PCI-Retro Output Backplate for 8 relays, LL-Relay Driver module, (48) R40-1 relays, screws, Cables
 Labels, HV-barriers/dividers

Space and mounting for One LS-IM-R LightSync Input module (97013485-R) for 4 hardwire 2 or 3-wire switches included
Space for mounting One LL-SI Serial Input module for MODbus (ASCII/RTU), JCI, DMX modules next to CPU
 BACnet (MSTP/IP) , MODbus TCP/IP will require an LLSI-PS (97013513) & mount plate (78001589)

New CAT-5 Data cable required for network link to other panels replacing existing PCI cable
 New CAT-5 from LL-NCA (LL NCA-HLD) Network Controller and panels, may require a PSR
 New CAT-5 cable to LS switches, may require PSR, or PS-HUB

Existing hardwire dry-contact switches may be re-used (Status Light not supported)
 Hardwire switches require adding LS-IM modules (4-inputs 2 or 3 wire w/LED status @ 5VDC)
 2-Wire inputs can be supported using a LSOS8I-R and power supply (8-inputs per module) as *Remote module*

Existing Standard Enclosure size:
 PCI-8/16: 15"W x 18"H x 6.25"D
 PCI-24/32: 15"W x 36"H x 6.25"D
 PCI-40/48: 15"W x 41"H x 6.25"D



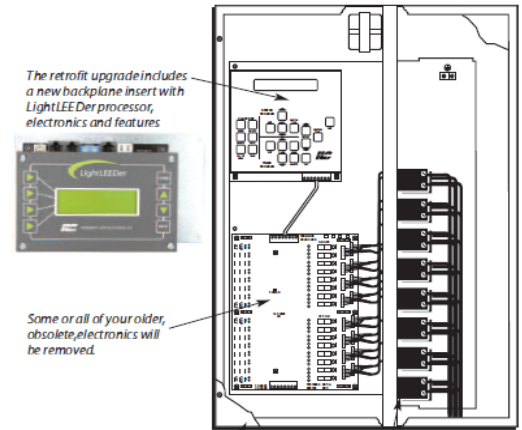
Eaton GreenGate PCI LiteKeeper LK4 & LK8 panel not supported

TB1801 Rev A

Retrofit outdated or obsolete hardware
 Updates RSX, Quanta Elite, LightMaster,
 or competitors systems



Retrofit Package



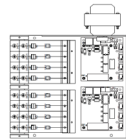
SAVINGS: The existing enclosure does not need to be removed

SAVINGS: The existing relays and line voltage wiring can remain intact.

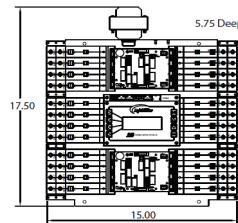
LightLEEDer-24/40/48 Microlite® Retrofit Insert



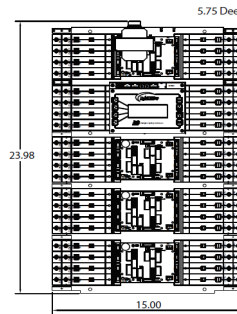
LightLEEDer-8X Retrofit Insert



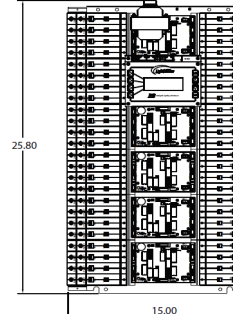
Retrofits MicroLite® 50 and others



LightLEEDer-24 Retrofit Insert

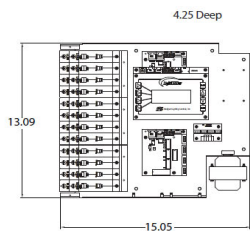


LightLEEDer-40 Retrofit Insert

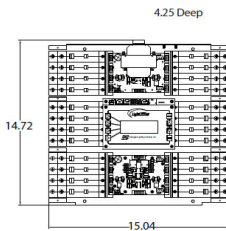


LightLEEDer-48 Retrofit In

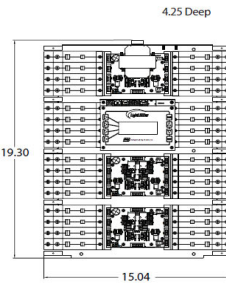
LightLEEDer-12 -24 -32 -48 GE Retrofit Insert



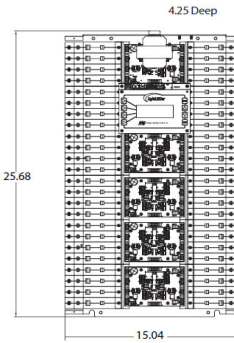
LLGERI-12 Retrofit Insert
 (RTUB12 - 16H x 16.5W x 4.5"D)



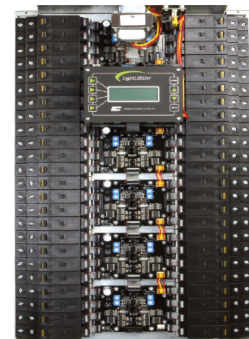
LLGERI-24 Retrofit Insert
 (RTUB24 - 22.5"H x 24"W x 4.5"D)



LLGERI-32 Retrofit Insert
 (22"H x 18" W x 4.5"D)



LLGERI-48 Retrofit Insert
 (RTUB48 - 36"H x 24"W x 4.5"D)



PCI Panel Upgrade to LightLEEDer

- Existing Standard Enclosure size:
- PCI-8/16: 15"W x 18"H x 6.25"D
 - PCI-24/32: 15"W x 36"H x 6.25"D
 - PCI-40/48: 15"W x 41"H x 6.25"D

