

## Laser Link® Mainframes

### Description

In optical transmission systems, the mainframe forms the foundation of the product family. The Laser Link III™ Mainframes provide network operators with the unique features that enable the deployment of a “carrier class”-type network. Advanced features such as high usable module density, broad operating temperature range for field deployment without environmental controls, and a unique design optimized for easy module insertion, setup, and administration make the Laser Link III Mainframes the key to increased network reliability, scalability, and more cost-effective deployments.

The Laser Link III Mainframes house, power and route status information to and from Laser Link modular transmitters, receivers, and amplifiers.

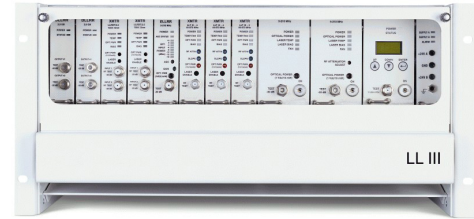
The 5RU Mainframe contains 14 user-selectable slots.

The 2 RU Mini-mainframe shelf contains 4 user-selectable slots. The rack space efficient design makes it especially suitable for less dense applications.

Both shelves are able to accommodate the full array of Laser Link modules.

### Features

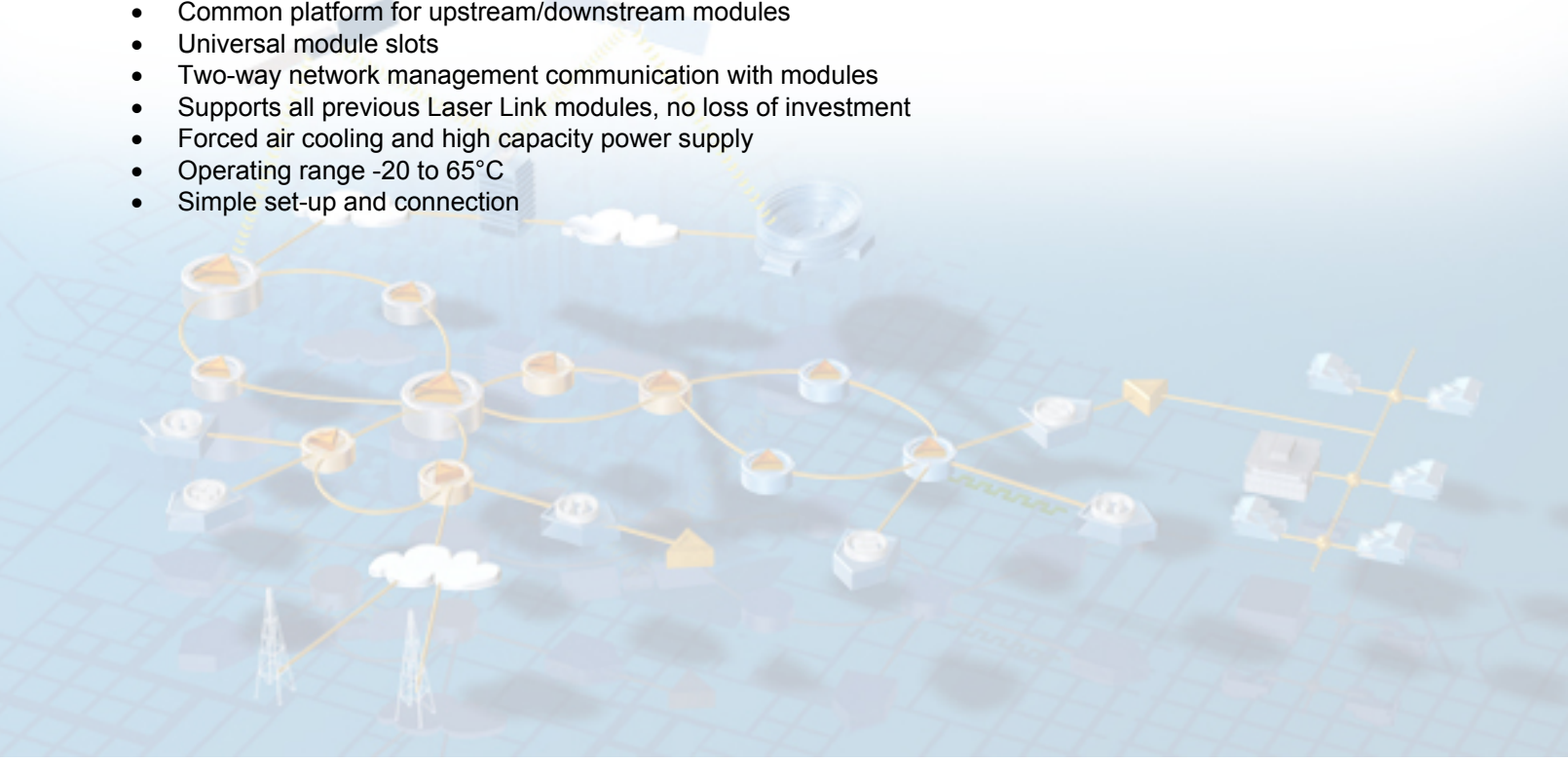
- Module design, efficient use of space
- Integral cooling mechanism – rack space, fans or blowers not required
- Redundant power input improves system reliability, AC/DC choice allows for system flexibility
- Flexible configurations – user selectable module placement
- Common platform for upstream/downstream modules
- Universal module slots
- Two-way network management communication with modules
- Supports all previous Laser Link modules, no loss of investment
- Forced air cooling and high capacity power supply
- Operating range -20 to 65°C
- Simple set-up and connection



Mainframe



Mini-mainframe



## Specifications

### Mainframe

Electrical	Units	AC and DC Versions	
Output Voltage (Nominal)	V DC	24	
Ripple and Noise (Max.)	(Output Volt = 24 V)	1% peak-to-peak	
Output Current (Max.) <sup>1</sup>	amps	15.6	
Output Power (Max.)	W	375	
Specified Temperature Range	°F (°C)	-4 to 149 (-20 to 65)	
		AC Version	DC Version
Input Voltage Range <sup>2</sup>	V	85-264 <sup>2</sup>	40 ~ 60
Input Current <sup>3</sup>	amps	n/a	12
Fuse Type		8 amp AC input line fuse	15 amp thermal magnetic breaker

Safety Approvals	Units	Specification
Safety Agency Approvals		CSA 22.2 No. 234, U.L.® 1950, EN 60950, CE
<b>Physical</b>		
Operating Temperature	°F (°C)	4 to 149 (-20 to 65)
Relative Humidity (Non condensing)	%	5-95%
Mounting	in. (cm)	Standard 19 (48.26) rack/optional 23 (58.42)
Dimensions (H x W x D)	in. (cm)	8.75 x 19 x 21.1 (22.23 x 48.26 x 53.59)
Weight	lbs. (kg)	32 (14.5)

#### Notes:

1. Derated for temperature, 65 °C
2. AC input range selection is fully automatic
3. Typical @ 48 V dc and maximum output current

### Mini-Mainframe

Power	Units	Specification
Input Current	amps	2.5 @ -48 V DC 2 @ 120 V AC
Output Power (Max.)	W	100
Output Voltage	V DC	24 ±2.5%
<b>Front Alarm</b>		
"A" Supply, "B" Supply	V	>26.4 <21.6
<b>Physical</b>		
Operating Temperature	°F (°C)	-4 to 149 (-20 to 65)
Relative Humidity (Non condensing)		20-100%
Mounting	in. (cm)	Standard 19 (48.26) and 23 (58.42) rack
Dimensions (H x W x D)	in. (cm)	3.5 x 19 x 19 (8.89 x 48.26 x 48.26)
Weight	lbs. (kg)	15 (6.80)

# Laser Link Mainframes



## Ordering Information

Description	Part Number
Mainframe, AC Power Supply, User Panel, -20 to 65°C	254040
Mainframe, AC Power Supply, EMIC, -20 to 65°C	254041
Mainframe, DC Power Supply, EMIC, -20 to 65°C	254042
Mainframe, DC Power Supply, User Panel, -20 to 65°C	254043
Power Supply, LL III Mainframe, Redundant, ACc Input, -20 to 65°C	254046
Power Supply, LL III Mainframe, Redundant, DC Input, -20 to 65°C	254047
EMIC for LL III Mainframe	254057
LL Mini-Mainframe w/ac Power Supply, User Panel	254100
LL Mini-Mainframe w/dc Power Supply, User Panel	254106
Mounting Brackets, 5RU, for 23" rack, LL III	704095

**Note:** All Mainframes have Primary Power Supply and User Panel, or EMIC installed.

Laser Link products include some of the industry's most complete range of high performance optical components:

1310 nm Transmitters  
1550 nm Transmitters  
1550 nm Optical Amplifiers  
Receivers  
Ancillary Modules  
Main Frame

For more information please refer to:

Laser Link Data Sheet Part Number 7001673  
Laser Link Data Sheet Part Number 7001674  
Laser Link Data Sheet Part Number 7001675  
Laser Link Data Sheet Part Number 7001676  
Laser Link Data Sheet Part Number 7001677  
Laser Link Data Sheet Part Number 7001678



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Scientific-Atlanta, Inc.  
1-800-722-2009 or 770-236-6900  
www.scientificatlanta.com

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