



IRVIN Technologies, Inc.

Desktop Reader
Shown Here
ITI-LFOR-D

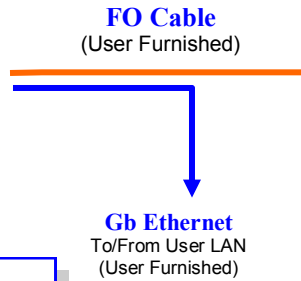
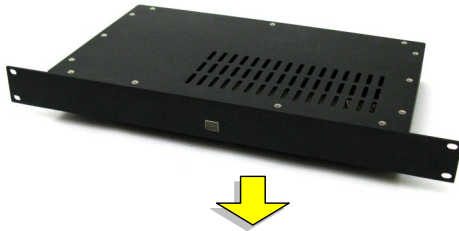


LFOR Reader

ITI-LFOR

The ITI-LFOR is a turn-key high speed Fibre Channel PMD Reader supporting download speeds up to 50 times faster than Ethernet transfers.

System Concept



Network Access Controller:

- ITI Fibre Channel Controller
- Connects point to point with PMD Reader Chassis
- FC to Gigabit Ethernet Bridge for LAN interface
- 1U Rack Mount Chassis

PMD Reader Chassis:

- ITI Fibre Channel Controller
- Supports 2 PMD units
- Desktop Enclosure with Deployable/Carrier version
- EMI Shielded Design (Refer to Environmental Specifications for Details)

Features and Benefits:

- Tamper resistant enclosure for increased physical security
- One-Button PMD download with smart display status indicators
- Secure data transfers using high-speed digital Fibre Channel
- Shipboard environment compliant version
- Smart power management for energy efficiency (less than 5W in idle state)

All System Models Include:

- Reader Chassis configured with dual Enhanced Data Transfer Cartridges to accept F-35 Portable Memory Devices (PMD)
- 1RU Rack-Mount Network Access Controller providing Gigabit Network Interface



EMI/RFI Shielded Door
Viewing Windows provide Visual of PMD Slots

Smart Status Display Modules
Multicolor LCD and Illuminated Wake-Up Button per EDTR



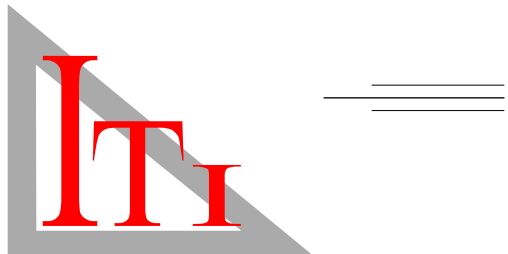
Deployable/Carrier Version
Includes Transit Case with MIL-STD-901D Grade B Compliant Internal Shock Isolators

Irvin Technologies, Inc

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ITI-LFOR-0409-Q



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Specifications

Digital Engine — ITI FC Controller		
CPU	Type	High Performance Dual Core Processor
	Speed	Up to 1.2GHz
	Major Features	- 32 bit 33/66 MHz PCI-X High Speed Interface - DDR2/DDR3 Memory Controller - 32 KB L1 Cache and 512 KB L2 cache
Memory	RAM	2GB DDR SDRAM
	ROM	4GB NAND Flash
I/O	LAN	Dual GB Ethernet (Min)
	FC	- Secure Point to Point Link between Reader and NAC - 1-2 Gbps FC Data Rates
	RS-232	Dual Ports (min)
OS	VXWorks in Flash ROM	

Environmental All Versions	
Reader Chassis Enclosure	EMI Shielded Design Corrosion resistant aluminum alloy IAW MIL-C-5541F, type 1, class 1A
Power	85 ~ 250VAC (Universal), 50/60 Hz 100W max (see attached power cord drawing)
Temperature	0 °C to 49 °C
Humidity	Operating: 10% to 85%, non-condensing
Altitude	-1300 to 10,000 feet
Grounding	All models include chassis ground stud for MIL-STD-1310H sec. C.6 implementation

Environmental Deployable/Carrier Version Only: Compliance w/Testing	
Humidity	MIL-STD-810G, Method 507.5, Proc. II
Shock	MIL-STD-901-D Grade B
Vibration	MIL-STD-167 type 1
Drop	MIL-STD-810F, Method 516.5 Proc. IV (4 foot drop)
EMI	MIL-STD-461F
Enclosure & Tie Downs	Rugged Transit Case with internal MIL-STD-901D Grade B isolation; Compatible with 1" Kevlok® Straps

Mechanical	
Dimensions (approx)	Reader: 12"H x 13"W x 15"D NAC: 1RU x 12"D Transit Case: 20"H x 27"W x 32"L (with Lids)
Weight (approx)	Reader: 25 lbs (w/o cartridges) NAC: 12lbs (w/o cartridges) Transit Case: TBD
Capacity	Accepts up to 2 cartridges
Major Components	- All systems come with Reader chassis, NAC chassis, power cords and fiber test cable - Deployable/Carrier version comes with Transit case mounted Reader chassis
Data Interfaces	Gb Ethernet (RJ-45 Copper)
Fiber Interface	MIL-C-38999 Series III, 24MB2PA (or 24MFB2PA) Size 11, Pin Arrangement 11-2, Pin 125 micron ceramic termini Cabling: Single Mode Duplex Fiber Max Fiber Segment Length 9km

Regulatory Compliance	
Safety	CE 2004/108/EC
Emissions	CE 2006/95/EC

Application Support and Performance	
Configured To accept up to 2 PMD units with Reader Application Software	
Data throughput as much as 50 times faster than Ethernet transfers	

Ordering Information	
Part Number	Description
ITI-LFOR-D	Base System consisting of Desktop Reader Chassis and Rack-Mount NAC
ITI-LFOR-S	Deployable/Carrier version with Transit Case Housed Reader Chassis and Rack-Mount NAC

Options	
	MIL-STD-810F Compliance w/Testing for Desktop Version ⁽¹⁾
	MIL-STD-461 Compliance w/Testing for Desktop Version ⁽¹⁾
	Alternate Enclosure Styles ⁽¹⁾
	Maintenance and Support ⁽¹⁾
	Interconnecting Fiber Optic Cable ⁽²⁾

⁽¹⁾ Specific Requirements to be Coordinated based on the specific deployment environment
⁽²⁾ Factory terminated cables of various lengths are available. See Cable Ordering Information for details.



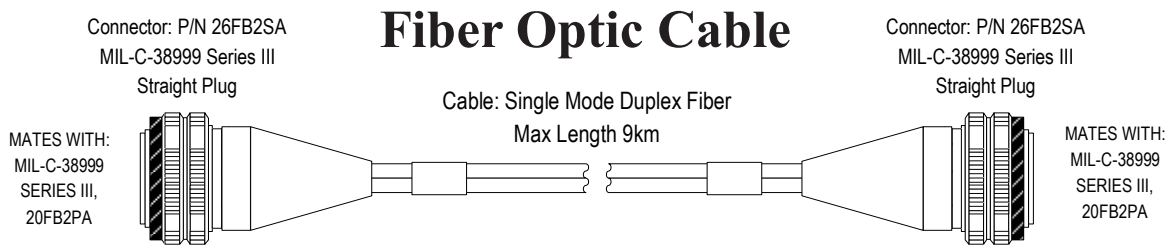
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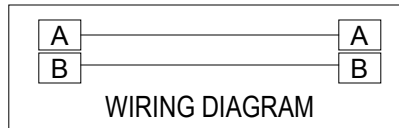


ITI-LFOR

Facility Cabling Specifications



Note: Both ends use the same connector.



All LFOR models ship with a 3m interconnect cable and Qty 2, MIL-C-38999 Series III connector kits to support field termination of facility fiber for interconnection. Factory terminated cables in various lengths are available. Contact ITI for pricing. Use ordering numbers below.

Cable Ordering Information

Part Number	Description
ITI-JSF-LFOR-CBL-0300	300m Interconnecting Cable
ITI-JSF-LFOR-CBL-0600	600m Interconnecting Cable
ITI-JSF-LFOR-CBL-1000	1km Interconnecting Cable
ITI-JSF-LFOR-CBL-2000	2km Interconnecting Cable



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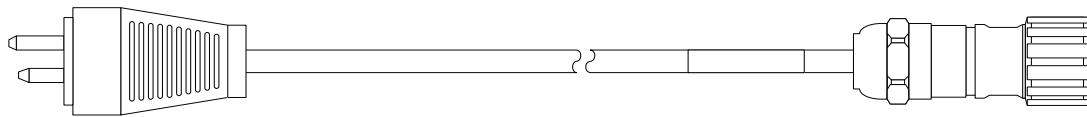
Facility Cabling Specifications

AC Power Cable

STD North-American
NEMA 5-15P

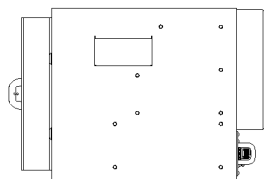
Cable Description:
Gauge 18/3, 10 Foot Length,
Rated 125V/10A, 105 °C

MATES WITH:
Reader Power Input Connector

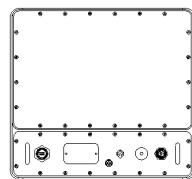


Other power cable types available upon request.

I/O Panel



SIDE VIEW



REAR VIEW

I/O PANEL

