

Ethernet and Fast Ethernet

Managed 10Mbps and 100Mbps for media, speed, distance, and path protection



- 10 - 1000Mbps copper-to-fiber and fiber-to-fiber
- Path protection and restoration
- 2km, 20km, 40km and 100km
- NEBS Level 3 certified (selected line cards)

Flexible Managed Solutions for Mixed-Media Networks

Metrobility's Ethernet and Fast Ethernet interface products offer versatile speed, media, distance, and redundancy options to cost-effectively distribute fiber optic connections.

These units provide seamless connectivity within the LAN, or between the LAN and public or private networks. This innovative family of products reliably converts all signal activity ensuring accurate data flow across the network, with a distance up to 100km over singlemode Fast Ethernet and tested to distances up to 10km over multimode Fast Ethernet.

Unique troubleshooting features include Link Loss Carry Forward, Link Loss Return, Auto-recovery (10/100 only) and remote loopback (selected models).

Remote loopback enables network technicians to test a link on a remote device from a local device.

Auto-recovery provides the ability to automatically restart the link after a link loss event.

Link Loss Carry Forward and Link Loss Return sends a link loss event to a managed station to enable network administrators to identify link problems quickly.

The patented dual interface line card offers redundant data paths for line protection and restoration.

Flexible Platform Options

All Metrobility interface line cards are supported in Metrobility's Radiance and Lancast chassis. DC versions of the R5000 and R1000 are NEBS certified.

The standalone version is enclosed in a rugged metal fabrication to offer superior reliability for the most demanding environments. Each standalone is equipped with an external, universal AC power supply.

Superior Management Options

When configured in a chassis with the **Management Card**, the system enables NetBeacon™, the industry's most comprehensive SNMP-based element management system, to report on real-time data which provides critical, up-to-the-minute QoL information on the fiber link.

Web-based management using a standard web browser is embedded into the management card. Called WebBeacon™, network administrators can view and remotely configure a single platform.

The Metrobility Difference

Unique troubleshooting features including:

- Link Loss Carry Forward
- Link Loss Return
- Remote Loopback
- Auto-Recovery

High-quality, reliable design lowers long term cost-of-ownership

Signal retiming to reduce jitter

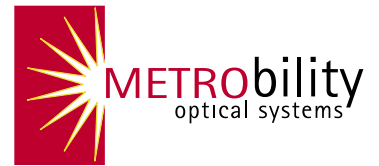
Complete range of fiber optic connector types provide network design flexibility

Product Highlights

Full signal restoration - with low bit delay - allows for maximum segment length

Interoperates with half-duplex or full-duplex mode devices

Strict standard compliance ensures compatibility with other vendors' equipment for flexible connectivity



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Metrobility Optical Systems is an innovative next generation optical networking company whose focus is on delivering optical access platforms and to harness the power of Ethernet and fiber optics to deliver superior network edge access and connectivity solutions.

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Model # ¹	Port 1	Max. Supported Segment Length		Port 1	Port 2
		Port 2	Port 1		
100Mbps					
R131-13	100BASE-TX	100BASE-FX	100m	2km	
7131-13-75	RJ-45	multimode SC			
2131-13-01					
R131-14	100BASE-TX	100BASE-FX	100m	20km	
7131-14-75	RJ-45	singlemode SC			
2131-14-01					
R131-15	100BASE-TX	100BASE-FX	100m	2km	
7131-15-75	RJ-45	multimode ST			
2131-15-01					
R131-16	100BASE-TX	100BASE-FX	100m	20km	
7131-16-75	RJ-45	singlemode ST			
2131-16-01					
R131-17	100BASE-TX	100BASE-FX	100m	40km	
7131-17-75	RJ-45	singlemode SC			
2131-17-01					
R131-1J	100BASE-TX	100BASE-FX	100m	100km	
7131-1J-75	RJ-45	singlemode SC			
2131-1J-01					
R131-33	100BASE-FX	100BASE-FX	2km	2km	
2131-33-01	multimode SC	multimode SC			
R131-34	100BASE-FX	100BASE-FX	2km	20km	
7131-34-75	multimode SC	singlemode SC			
2131-34-01					
R131-36	100BASE-FX	100BASE-FX	2km	20km	
7131-36-75	multimode SC	singlemode ST			
2131-36-01					
R131-44	100BASE-FX	100BASE-FX	20km	20km	
2131-44-01	singlemode SC	singlemode SC			
R131-47	100BASE-FX	100BASE-FX	20km	40km	
2131-47-01	singlemode SC	singlemode SC			
R131-54	100BASE-FX	100BASE-FX	2km	20km	
7131-54-75					
2131-54-01	multimode ST	singlemode SC			
R131-55	100BASE-FX	100BASE-FX	2km	2km	
2131-55-01	multimode ST	multimode ST			
R131-56	100BASE-FX	100BASE-FX	2km	20km	
7131-56-75	multimode ST	singlemode ST			
2131-56-01					
R131-66	100BASE-FX	100BASE-FX	20km	20km	
2131-66-01	singlemode ST	singlemode ST			
R131-77	100BASE-FX	100BASE-FX	40km	40km	
2131-77-01	singlemode SC	singlemode SC			
R131-4J	100BASE-FX	100BASE-FX	15km	100km	
2131-4J-01	singlemode SC	singlemode SC			
R131-JJ	100BASE-FX	100BASE-FX	100km	100km	
2131-JJ-01	singlemode SC	singlemode SC			

100Mbps with Remote Loopback

R133-13	100BASE-TX	100BASE-FX	100m	2km
M133-13	RJ-45	multimode SC		
R133-14	100BASE-TX	100BASE-FX	100m	20km
M133-14	RJ-45	singlemode SC		
R133-15	100BASE-TX	100BASE-FX	100m	2km
M133-15	RJ-45	multimode ST		
R133-16	100BASE-TX	100BASE-FX	100m	20km
M133-16	RJ-45	singlemode ST		
R133-17	100BASE-TX	100BASE-FX	100m	40km
M133-17	RJ-45	singlemode SC		
R133-1J	100BASE-TX	100BASE-FX	100m	100km
M133-1J	RJ-45	singlemode SC		
R133-1K	100BASE-TX	100BASE-FX	100m	2km
M133-1K	RJ-45	multimode LC		
R133-1M	100BASE-TX	100BASE-FX	100m	20km
M133-1M	RJ-45	singlemode LC		

1 Model Number Scheme

- Rxxx = Line Card (Radiance)
- 7xxx = Module (Lanecast)
- 2xxx = Standalone
- Mxxx = Delta Class Standalone

Model #	Port 1	Port 2	Max. Supported Segment Length	
			Port 1	Port 2
10Mbps				
R111-12	10BASE-T	10BASE2	100m	185m
7111-12-75	RJ-45	Thinnet Coax BNC		
2111-12-01				
R111-13	10BASE-T	10BASE-FL	100m	2km
7111-13-75	RJ-45	multimode SC		
2111-13-01				
R111-1T	10BASE-T	10BASE-FL	100m	5km
2111-1T-01	RJ-45	multimode ST		
R111-15	10BASE-T	10BASE-FL	100m	2km
7111-15-75	RJ-45	multimode ST		
2111-15-01				
R111-16	10BASE-T	10BASE-FL	100m	14km
7111-16-75	RJ-45	singlemode ST		
2111-16-01				
R111-18	10BASE-T	10BASE-FL	100m	2km
7111-18-75	RJ-45	multimode SMA		
2111-18-01				

10/100Mbps with Auto Recovery

R643-13	10/100BASE-TX	100BASE-FX	100m	2km
M643-13	RJ-45	multimode SC		
2643-13-01				
R643-14	10/100BASE-TX	100BASE-FX	100m	20km
M643-14	RJ-45	singlemode SC		
2643-14-01				
R643-15	10/100BASE-TX	100BASE-FX	100m	2km
M643-15	RJ-45	multimode ST		
2643-15-01				
R643-16	10/100BASE-TX	100BASE-FX	100m	20km
M643-16	RJ-45	singlemode ST		
2643-16-01				
R643-17	10/100BASE-TX	100BASE-FX	100m	40km
M643-17	RJ-45	singlemode SC		
2643-17-01				
R643-1J	10/100BASE-TX	100BASE-FX	100m	100km
M643-1J	RJ-45	singlemode SC		
2643-1J-01				
R643-1K	10/100BASE-TX	100BASE-FX	100m	2km
M643-1K	RJ-45	multimode LC		
2643-1K-01				
R643-1M	10/100BASE-TX	100BASE-FX	100m	20km
M643-1M	RJ-45	singlemode LC		
2643-1M-01				

10/100Mbps

R611-51	10BASE-FL	10/100BASE-TX	2km	100m
7611-51-75	multimode ST	RJ-45		
2611-51-01				
R621-11	10/100BASE-TX	10/100BASE-TX	100m	100m
7621-11-75	RJ-45	RJ-45		
2621-11-01				
R641-1E	10/100BASE-TX	100BASE-FX	100m	2km
7641-1E-75	RJ-45	multimode MT-RJ		
2641-1E-01				
R641-1G	10/100BASE-TX	100BASE-FX	100m	2km
7641-1G-75	RJ-45	multimode VF-45		
2641-1G-01				
R641-53	10BASE-FL	100BASE-FX	2km	2km
7641-53-75	multimode ST	multimode SC		
2641-53-01				
R641-55	10BASE-FL	100BASE-FX	2km	2km
7641-55-75	multimode ST	multimode ST		
2641-55-01				

See separate data sheets for the following options:

- Single Strand Bi-directional Wavelength Division Multiplexing (BWDM)
- 100Mbps Access Line Cards
- Line Protection and Restoration (redundant interface)

All interface cards and modules are NEBS Level 3 compliant.
 All models in blue are NEBS Level 3 certified.

Specifications

Environmental

Operating Temperature	0°C to 50°C
Operating Humidity	5% to 95% non-condensing
Storage Temperature	-25°C to 70°C

Regulatory

Compliance	IEEE 802.3/IEEE 802.3u
Safety and EMC	FCC, UL, CE, CSA
Power, Universal (standalone only)	90-250V AC 50/60Hz

Standalone (single interface)

Dimensions	4.8"L x 3.3"W x 1.7"H 12.3cm x 8.3cm x 4.3cm
Weight	1 lb; 45 kg
	See Delta Class "twister" and AutoTwister data sheets for product specifications