

Metrobility Modular Platforms

Managed Media, Speed and Distance Solutions



The Telco Systems' line of Metrobility® modular platforms provide a flexible, scalable and manageable means for integrating coax; Category 3, 4 or 5 twisted pair; and singlemode or multimode fiber optic LAN segments into Ethernet, Fast Ethernet, Gigabit Ethernet, SONET and TDM environments. These four platforms support the wide range of Metrobility interface line cards and services line cards.

Rackmount Platform

The **R5000** is a NEBS Level 3 certified 19" or 23" rack-mountable 2U platform which supports two rear-loading, redundant, load-sharing, hot-swap AC or DC power supplies, 16 slots for connectivity, and one slot for optional management access.

The **R1000** is a NEBS Level 3 certified 1U rack-mounted platform with dual, load-sharing AC or DC power, and accommodates two line cards.

The R5000 and R1000 have separate bus paths for management, data and power for more efficient internal communications.

Standalone Platform

The **R400** is a Class B certified standalone unit which, like the R1000, accommodates two line cards. The R400 is available with external AC power.

The **R200** is a Class B certified standalone unit which accommodates a single line card. The

R200 is equipped with an internal AC or DC power supply.

By utilizing special brackets, the R200 and R400 devices are able to be mounted to a wall or in a rack.

Management

The Metrobility **Management Card** supplies the management access and reports individual line card status to NetBeacon® ESP, the Metrobility SNMP-based element management system. The management card also includes an embedded web kernel called WebBeacon™ to allow remote access using any standard web browser and enables additional management via CLI, telnet and HP OpenView®.

Connectivity Options

The Metrobility connectivity options support a wide range of copper-to-fiber and fiber-to-fiber line cards as well as remote access, wavelength multiplexing, and Ethernet demarcation devices.

The Metrobility **Interface Line Cards** offer media conversion, distance, speed, and line protection and restoration options to cost-effectively and reliably distribute fiber optic connections. Wavelength multiplexing is also supported in selected line cards.

Metrobility's **Services Line Cards** create a single point of Ethernet demarcation when installed in the R200 platform at the customer premise. ■

Product Highlights

- ❖ Supports up to 17 connections
- ❖ Mix and match line cards for greater flexibility
- ❖ Multiple management options
- ❖ Minimizes IP address usage
- ❖ Simple to install and provision
- ❖ NEBS Level 3 certified



- ❖ Rugged rackmount ears with heavy-duty handles (R5000 and R1000 only)
- ❖ Mix and match up to 17 line cards to support a wide range of requirements including copper-to-fiber, fiber-to-fiber, link redundancy, single-strand BWDM, and CWDM



Specifications

Platform Specifications

R200	
Dimensions	8.625"L x 5.5"W x 1.625"H 21.9cmL x 14cmW x 4.1cmH
Weight	1.18 lb; 0.54 kg
Power	100-250V AC; 48V DC (SELV)

R400	
Dimensions	8.625"L x 5.5"W x 1.625"H 21.9cmL x 14cmW x 4.1cmH
Weight	2 lbs; 0.9 kg
Power	90-264V AC; 50/60Hz

R1000	
Dimensions	10.0"L x 17.0"W x 1.72"H 25.4cmL x 43.18cmW x 4.3cmH
Weight	9.5 lbs (3.5 kg)
Power	100-240V AC; 36V-72V DC

R5000	
Dimension	15.0"L x 17.0"W x 3.5"H 31.1cmL x 43.2cmW x 8.9cmH
Weight	17.0 lbs (7.0 kg)
AC Power	100-120/200-240V
DC Power	36V-72V



Environmental Specifications

Oper. Temp.	0°C to 50°C
Oper. Humidity	5% to 95% non-condensing
Storage Temp.	-25°C to 70°C
Compliance	IEEE 802.3/IEEE 802.3u IEEE 802.3z (R5000 only)
Safety	UL, CE, CSA, EN60950 CB (R200 and R5000 only),
EMC	R200 and R400: FCC Part 15, EN55022 and ICES-003 Class B EN55024: 1998 R1000 and R5000: FCC Part 15, EN55022 and ICES-003 Class A EN55024: 1998 NEBS Level 3 certification (DC only)
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SPECIFICATIONS

Ordering Information

Metrobility Platforms	
Part Number	Description
R200 Platform	
R200-AC	Single slot platform with single internal AC power supply
R200-DC	Single slot platform with single internal DC power supply
R400 Platform	
R400-2HS-1A	2-slot platform with single external AC power supply
R1000 Platform	
R1000-AAF	2-slot platform with two front-facing AC power supply
R1000-AAR	2-slot platform with two rear-facing AC power supply
R1000-DDF*	2-slot platform with two front-facing DC power supply
R1000-DDR*	2-slot platform with two rear-facing DC power supply
R5000 Platform	
R5000-17HS*	17-slot platform with two bays for optional AC/DC power supplies
ACPS-17HS	AC power supply for R5000 platform
DCPS-17HS*	DC power supply for R5000 platform
NetBeacon ESP Element Management System	
NBESP-99	Management Software for Windows XP Professional and NetBeacon ESP software license for 99 network elements
NBESP-249	Management Software for Windows XP Professional and NetBeacon ESP software license for 249 network elements
NBESP-UNLIMITED	Management Software for Windows XP Professional and NetBeacon ESP software license for unlimited network elements
R502-M*	Management Card- requires one slot in platform (One DB-15 and two RJ-45 connectors)

*NEBS certified

Features and Benefits

- 2U, 17-slot platform minimizes rack space required (R5000)
- Optional management card for SNMP management
- Separate bus paths for data, management and power (R5000 and R1000)
- Strict standards compliance ensures interoperability with other vendors' equipment
- Optional redundant load-sharing power supply for continuous network operation (R5000 and R1000 only)
- R5000 and R1000 DC options are NEBS Level 3 certified