

# Metrobility® Modular Platforms

Chassis-based Solutions



The Metrobility line of modular platforms by Telco Systems® 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.

The R1000 is an 1U rack-mounted platform that accommodates two line cards, and is equipped with dual, load-sharing AC or DC power.

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

The Metrobility 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.

### Standalone Chassis with Rackmount Options

The R400 and R200 are Class B certified standalone units which may also be mounted to a wall or in a rack using special bracket options. The R400, like the R1000, accommodates two line cards and is available with external AC power. The R200 accommodates a single line card and is equipped with an internal AC or DC power supply.

### 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®.

### Interface Options

The Metrobility interface 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.

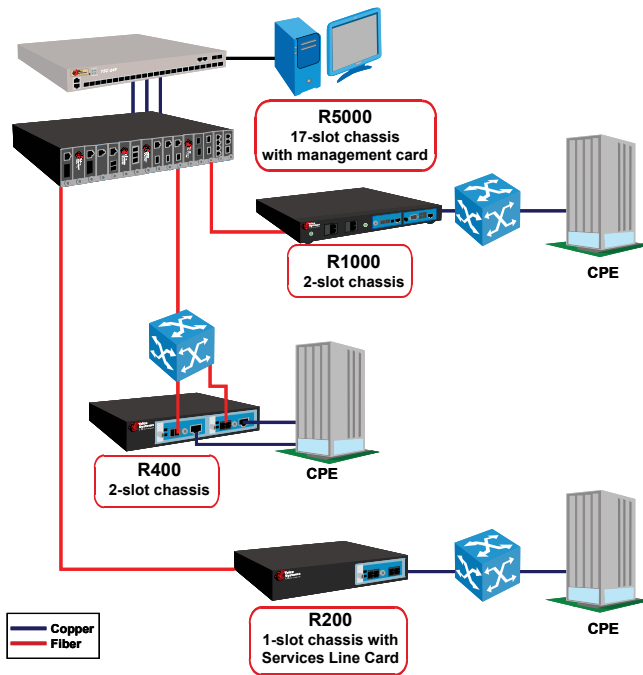
Interface Line Cards offer media conversion, distance extension, and line protection and restoration options to cost-effectively and reliably distribute fiber optic connections. Wavelength multiplexing is also supported in selected line cards.

The Metrobility Services Line Cards create a single point of Ethernet demarcation when installed at the customer premise.

- 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
- 2U, 17-slot platform minimizes rack space required (R5000)
- Optional management card for local and remote management
- Separate bus paths for data, management and power (R5000 and R1000)
- Optional redundant load-sharing power supply for continuous network operation
- Simple to install and provision
- NEBS Level 3 Certified (R5000 only)

# Metrobility® Modular Platforms

Flexible, Scalable and Manageable Chassis



## Key Applications

- Aggregation of multiple fiber connections to a copper switch
- Customer premise platform for single uplink to service provider
- Aggregation of multiple active CWDM connections to passive CWDM multiplexer

## Specifications

### Environmental Specifications General

#### Environmental

#### Operating Temperature

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

### Physical Specifications

#### 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 50-60Hz, 2A
- DC Power 36V-72V

#### 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)

#### 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

### Standards Compliance

- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3z (R5000 only)

### Safety and EMC Compliance

- UL, CSA, CE
- CB (R5000 and R200)
- Class 1 Laser Product (eye safety)
- EN55024:1998 (immunity)
- EN50082-1 (immunity) (R5000)
- EN60950 (safety)
- IEC 825-1 Classification (R5000 and R400)
- VCCI (R1000)

#### R5000 and R1000

- NEBS Level 3 Certification (R5000 DC only)
- EN55022 Class A (emissions)
- FCC Part 15, Class A
- ICES-003 Class A (emissions)

#### R200 and R400

- EN55022 Class B (emissions)
- FCC Part 15, Class B
- ICES-003 Class B (emissions)

## Ordering Information

Part Number	Description
R5000-17HS	17-slot platform with two bays for optional AC/DC power supply (NEBS Level 3 DC option only)
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
R400-2HS-1A	2-slot platform with single external AC power supply
R200-AC	1-slot platform with single internal AC power supply
R200-DC	1-slot platform with single internal DC power supply
Management	
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 with WebBeacon kernel - requires one slot in platform (One DB-15 and two RJ-45 connectors)



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