

MCPA

Hitachi's high-power Multi-Carrier Power Amplifier (MCPA) is designed to support multiple configurations in 850MHz and 1900MHz wireless networks. The Hitachi MCPA can be used in 4-in 4-out, N+1, and 4 x 2 configurations. The MCPA is technology-transparent and supports multiple technology environments, including TDMA, GSM, EDGE, UMTS, HSDPA, and CDMA2000.

Benefits

- Increase coverage and capacity per site without need for additional antennas or feeder cables
- Overcome line loss issues
- Seamlessly combine multiple technologies such as GSM and UMTS

Features

- Works with all technology modulations and all BTS radio equipment
- Flexible design supports multiple configurations: 3 antennas per site; 4-in 4-out (1 amplifier module per sector); N+1 (redundancy), and 4 x 2 (2 amplifier modules combined per sector for higher power)
- Frequency flexibility: 850MHz only, 1900MHz only or combined 850 and 1900MHz.
- Low IMD: -65dBc typical
- Fans are hot-swappable
- 850MHz version is available with or without integrated LNA for uplink signal improvement
- LNA incorporated bypass function
- Little or no maintenance required
- Indoor or outdoor configuration
- Standard 23" EIA rack mountable
- Standard 23" indoor frame is Zone 4 rated
- Variable attenuator for RF input
- Dry contact alarm interface
- FCC Part 15, 21 and 24 type accepted
- Meets UL 60950 safety standard
- Adjustable VSWR alarm settings



Subrack Assembly N+1 Configuration

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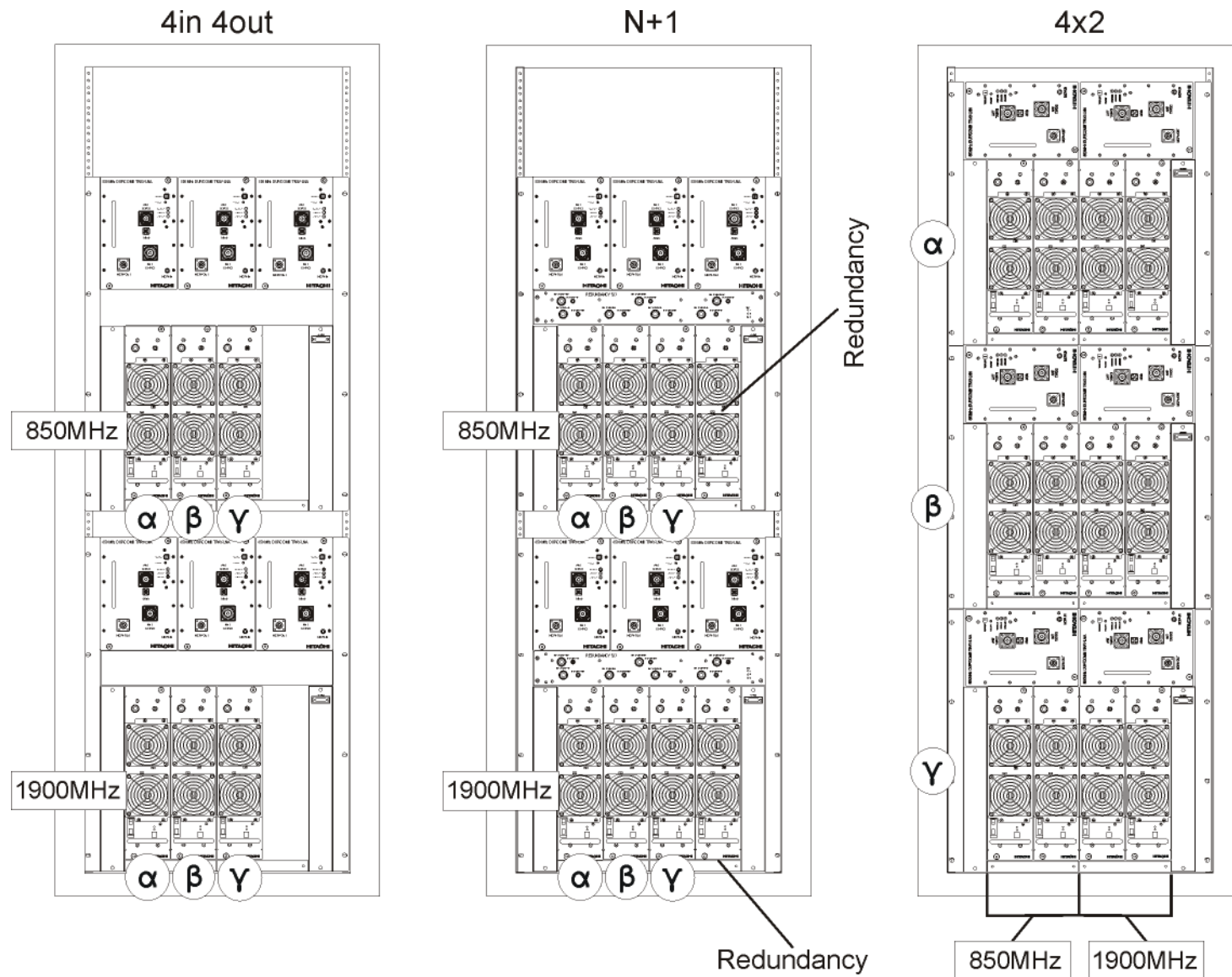
Not all features and specifications are available simultaneously, and some features may be included in future product releases. Specifications are subject to change without notice. Product information is provided for general guidance only, and does not constitute a warranty.

10-MCPA-CFG-C-103006.1W

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Multiple configuration bay layouts

The following layouts illustrate the flexibility of Hitachi's MCPA solution to support of multiple operational applications. Each configuration covers the three antenna sectors, identified as alpha, beta and gamma, and shows the ability to combine both 850MHz and 1900MHz frequency systems in a single rack. See back page for sub-rack details.



4-in 4-out Configuration

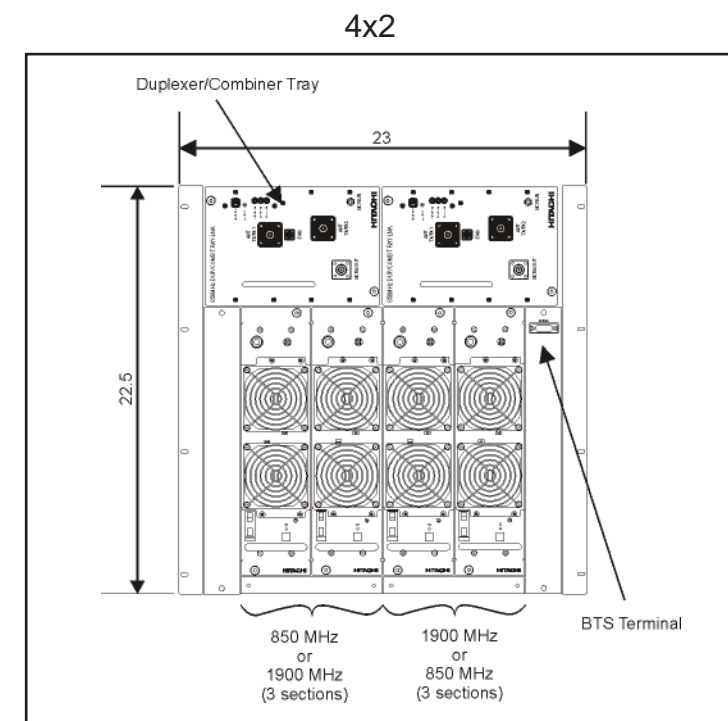
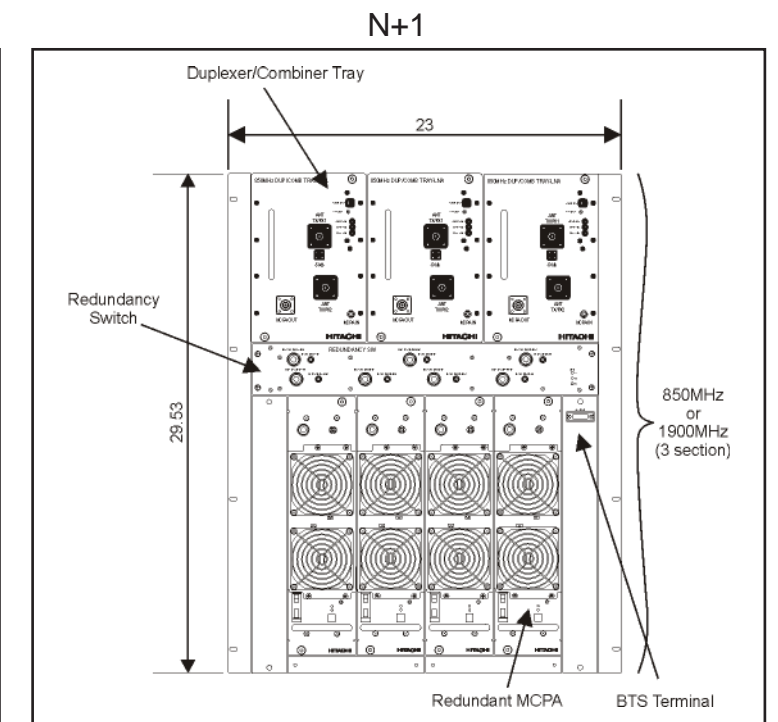
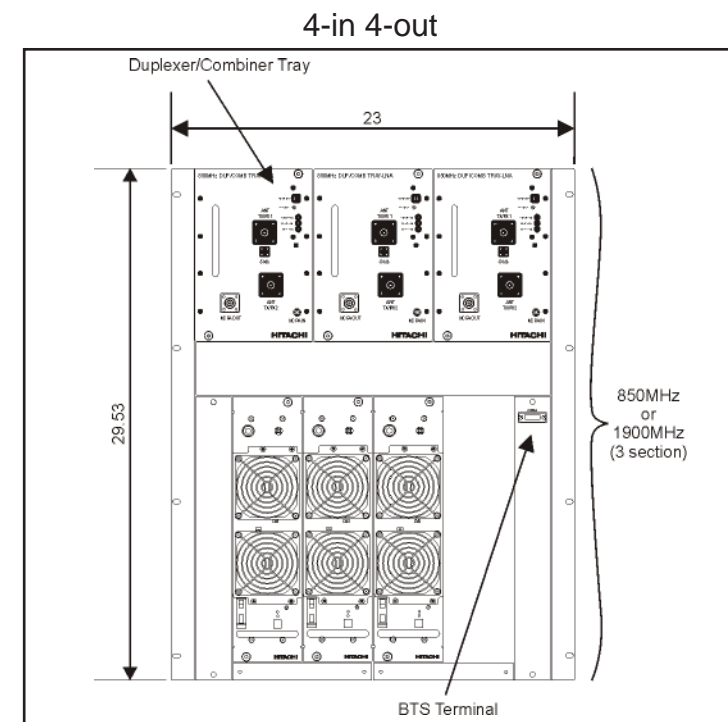
Multiple sector functionality in a single subrack

N+1 Configuration

Multiple sector functionality with redundancy in a single subrack

4 x 2 Configuration

2:1 combined, dual frequency, single sector in one subrack



| Subrack Physical Specifications | Weight | | | | |
|---------------------------------|--------|--------|--------|----------------------|----------------------|
| | W | H | D | 850MHz | 1900MHz |
| 4in 4out | 23" | 29.53" | 23.03" | 265.9 lb 120.7 Kg | 246.1 lb 111.7 Kg |
| N+1 | 23" | 29.53" | 23.03" | 306.4 lb 139 Kg | 286.6 lb 130 Kg |
| 4x2 | 23" | 22.5" | 23.03" | 247.2 lb 112.1 Kg | |



Full indoor rack assembly (N+1 configuration shown)