Flexent® Modular Cell 4.0 Indoor
For CDMA Networks



The Flexent® Modular Cell 4.0 brings the Flexent® OneBTS™ Base Station Digital Shelf to CDMA, in a natural evolution of our popular Modular Cell. This indoor base station packs 4 carriers/3 sectors into a cabinet that is 40% smaller than the outdoor frame. Besides making immediate capacity gains, the Flexent® OneBTS™ Base Station Digital Shelf has all the "hooks" needed to support additional capacity enhancements as we bring them to market. Our Bell Labs developers are working on Intelligent Antennas, Transmit Diversity, dual band and mixed mode, and BLAST technologies. These technologies will multiply the capacities and capabilities of the Modular Cell 4.0. The best part is that all of these features can be added to the Modular Cell 4.0. This base station is the ultimate in investment protection. As the leader in spread spectrum technology, we can deploy this base station in any frequency from 300 MHz to 2100 MHz. Talk to us about what it can do for you.

Features

The indoor version is in a much smaller frame and utilizes the power available at an indoor site.

- Indoor Single Frame Configuration
- 3 Sectors, 1–4 Carriers
- Supports 12 T1/E1 lines
- Support for CDMA2000™ 1X and 1xEV-DO
- Flexent® OneBTS™ Base Station Digital Shelf
- Universal Radio Controller (URC)
- Universal CDMA (Baseband) Radio (UCR)
- Common Timing Unit (CTU)
- CDMA Modem Unit (CMU)
- Test Diagnostic Unit for RF testing and Self-Calibrating (TDU)

Benefits

- Conserves indoor footprint, reducing floor space requirements by more than 40% versus current Modular Cell
- Designed to share existing power supply
- Grow CDMA carriers on 2 antennas
- Open architecture for RF components
- Investment protection with field upgrades to support mixed spectrum, Transmit Diversity, Intelligent Antennas, and CDMA/UMTS in the same frame

Technical Specifications

	Description	Specification
1.	**Configurations**	
	a. Sectors	1 to 3
	b. Carriers	1 to 4
2.	**CDMA Channel Card Capacity**	12 slots; CMU III and/or CMU IV capable
3.	**T1, E1 Facilities**	4 per URC; maximum of 12 per cabinet
4.	**Air Interface Standards**	ANS J-STD-008 for 1.9 GHz; T1A/E1A 95-A plus TSB-74; T1A/E1A 95-B for 850 MHz; CDMA2000
5.	**Frequency Bands**	850/1900 MHz ready; 300 to 2100 MHz capable
6.	**Vocoder**	8 Kbps; 8 Kbps EVRC; 13 Kbps; SMV-ready

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Technical Specifications (*continued*)

Description	Specification
7. **Environmental Cabinet Housing**	Standard ETSI cabinet; UL50 compliant. Zero rear clearance
8. **Cabinet Access**	Front Access
9. **Operating Temperature Range**	Range: -5°C to +50°C
10. **Dimensions**	74"H x 23.6"W x 28.5"D (1880 mm H x 600 mm W x 724 mm D); Growth frame depth is 24"
11. **Estimated Installed Weight**	4C/3S = 733 lbs. (332 kg)
12. **Power Source**	+24 VDC Input ; -48 VDC Input
13. **RF Power (at J4)**	20W per carrier (850); 16W per carrier (1900)
14. **Channel Elements**	Channel pooling across sectors and 2 carriers
15. **Minimal Antenna Configuration**	2 antennas/sector
16. **Growth Frame**	Modcell 1.0, 2.0, 3.0, 4.0

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