



GST Repeater System

In Building CDMA Repeater
GSTR-1924DC-SPR

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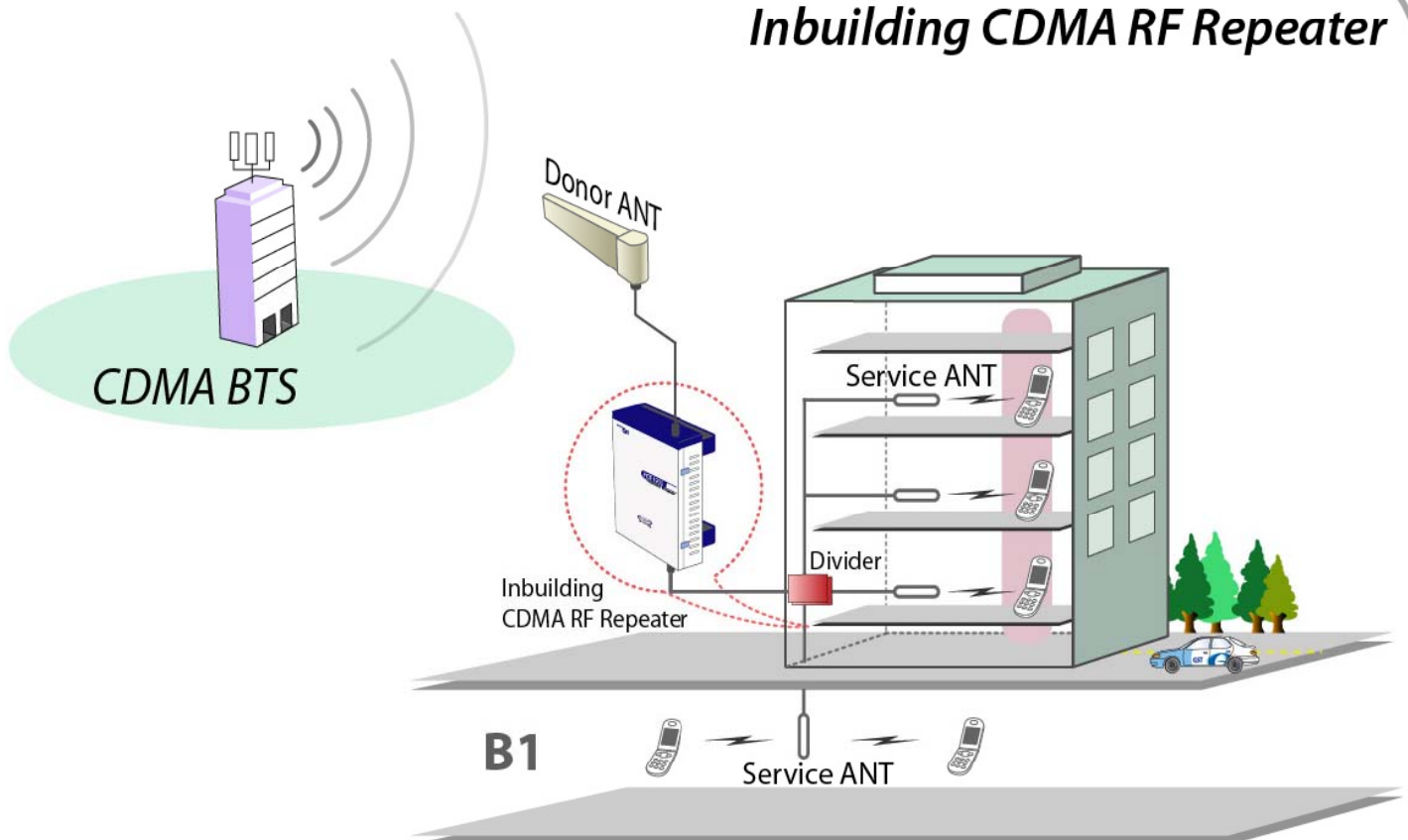
Model GSTR-1924DC-SPR

US PCS Bands Operation



- **Field adjustable band selection**
- **PCS up to 3 Bands A thru G**
 - Continuous, Non-Continuous Bands Selection
 - Selectable 5, 10, 15 or 20 MHz Bandwidths
- **Automatic setup and operational gain control for easy**
 - Auto Gain Control, Auto Limit Control, AGS
 - installation and maintenance free operation
- **Small lightweight, mounts virtually anywhere**
 - Wall Mount install and Run
- **Low power consumption, powered from any 110 AC outlet**
- **Remote monitoring option**
- **Applications – Max. 2.4 Acre coverage**
 - Small stores and businesses
 - Manufacturing facilities
 - Warehouses

Inbuilding CDMA RF Repeater



System specifications

Characteristics		Specification
Frequency Range	Forward	1930 ~ 1995MHz
	Reverse	1850 ~ 1915MHz
System Group Delay		< 5 μ s
Characteristic Impedance		50 ohm
VSWR		Max1.5 : 1
Input Power Range		-56 ~ -20dBm (for both Uplink and Downlink)
System Isolation		> 87dB
Gain Range		40dB ~ 80 dB
Noise Figure		< 4.5 dB @ Max Gain <12 dB @Min Gain
Gain Adjustment Step(Accuracy)		1dB(\pm 0.5dB)
Pass Band Ripple		2.5dB(\pm 1.25dB)
Maximum Output Power		250mW / 24dBm
Spurious Emissions		>45 dBc @885kHz >55 dBc @1.98kHz <-13dBm @Fc \pm 2.25MHz (RBW: 1MHz)
IF Path		5MHz/10MHz/15MHz/20MHz
IF Frequency		FWD: 200 MHz, RVS: 120MHz
Band Select		Local Shift & RF Switching
Roll Offs		> 50dBc @1MHz
Waveform Quality Factor		min 0.912

Electrical and Environment Specifications

Item	Specification	Remark
RF Connector	N-Type Female	
Power Connector	AC	MIL-C-5015 Type Circular Type
	DC	
AC Supply	110VAC ~ 125VAC, 60Hz 3.0A	\pm 10%
DC Supply	-40VDC ~ -60VDC, & 20VDC ~ 30VDC	Optional
Out Dimension	16.10(W) * 17.70(L) * 6.89(L)	Inch
Net Weight	35.1	lbs
Material	Module	AL6063S-T5
	Cabinet	AL5052P
Operation Temperature	-10 $^{\circ}$ C ~ +50 $^{\circ}$ C	Convection cooling
Humidity	5% ~ 95%	Non-condensing
Dust Resistance	TELCORDIA GR63-CORE	
Vibration Resistance	1G, 10~150Hz, 0.1 Octaves/min	

Repeater with installation kit

Parameter	Item	Quantity	Remark
Major Component	CDMA 24dBm repeater	1 EA	Provided by GST
Additional components	Ethernet Cable (cross)	1 EA	Provided by GST
	Power Supply Cable	1 EA	
	Fixable Screw x's 4 (Size: 1/2"x 2")	1 SET	
	Ground Cable	1 EA	
	CD which contains User Manual with Installation Guide	1 EA	
	Lag Screw x's 4 (Size: 1/2" x 1.5")	1 SET	
	Sems Screws x's 4 (Size: M4 x 8mm)	1 SET	
	Sems Screws x's 4 (Size: M6 x 16mm)	1 SET	
	Anchor Target Sheet	1 EA	
User Manual	Installation Guide (Book)	1 EA	Provided by GST
Antenna	Donor ANT	1EA	Not Included
	Server ANT	1EA	
RF Cable	Antenna connection Cable	TBD	Not Included