



17 PRODUCT DESCRIPTION

General

Item		Specifications
RF output power average (Peak)		200 mW (1.6 W)
Sensitivity (Static BER = 1%)		14 dB μ V
Antenna (Diversity)		2 external antennae (2 branch)
Diversity		
	RX (uplink)	Antenna selection diversity (frame by frame)
	TX (downlink)	Transmitter antenna selection diversity (2 branch)
Air interface		Based on RCR STD-28 ver.2
RPC interface		Proprietary BRI equivalent (4B+D+K) x 1
Speech coding rate		32 kbps (ADPCM) x 3 or 4
Maximum wire line length ($\leftrightarrow$ RPC)		3.5 km (ϕ 0.4) 5.0 km (ϕ 0.5)
Maximum power consumption		Approx. 3 W
Power source		110 VAC
Operational Environment		
	Temperature	-10° to + 50°C
	Humidity	Less than 95 % (non-condensing)
Size		260 x 215 x 100 mm
Weight		Approx. 2 kg
Line connection		Screw less terminal
Antenna connection		TNC connector
Battery backup		None

Radio Features

Item	Contents
Radio frequency	For private use: 1,895-1,906.1 MHz For public use: 1,895-1,910 MHz
Carrier spacing	300 KHz
Radio access	TDMA-TDD
Number of TDMA slots	4 (for full rate CODEC)
Modulation	$\pi/4$ shift QPSK (roll-off factor = 0.5)
Transmission bit rate	384 kbps
Speech coding	32 kbps ADPCM

Antenna

Items:	Specifications
Type	Co-Liner antenna (Omni-directional) 2 branch
Gain	7dBi
Impedance	50 Ω
VSWR	less than 1.5
Cable	Length: within 1m Attenuation: 0.5dB/m