



Applications

- TETRA, TETRAPOL, DMR
- Coverage enhancement
- Confined area: warehouses, buildings, parking, tunnels

Key features

- Bi-directional low power
- Range 350-520 MHz
- 5MHz or 6.5MHz bandwidth
- Customizable filtering
- Regulation per slot
- Monitoring & control via IP
- Very compact size
- IP65

Description

SEE Telecom's Low Power Digital Off-air radio repeater (Mini-DIRAC) enhances RF coverage in confined areas. The solution consists of an repeater processing the signal from one outdoor receiving antenna and transmitting it to the confined areas by ceiling antennas or radiating cable. The product is particularly made for warehouses, where a low output power is needed.

The Mini-DIRAC is a band selective repeater and is particularly made for any UHF band services between 350 and 520Mhz for applications such as TETRA, TETRAPOL or analog UHF. It processes a wide band, with variable bandwidth and a regulation per slot.

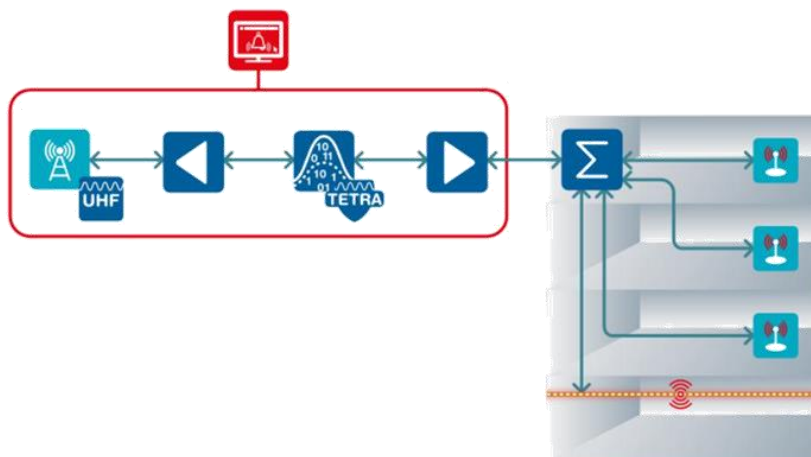
The repeater has three RF connectors, one connected to the antenna pointing toward the base station, the second one is connected to the antenna or radiating cable in the infrastructure and the third one is a -20dB test point. Monitoring and control can be done via SNMP, SCADA or Ethernet using a web browser installed on a PC which gives access to the GUI. This interface contains an easy configuration page. The Mini-DIRAC also has a sum alarm output which can be connected to an external alarm system.

Due to its protection rating, the Mini-DIRAC can be installed in the harshest environment, indoors or outdoors.

It can be ordered with different frequencies, different power supply voltages and with or without battery backup.

Benefits

- Easy installation
- No near-far effect
- Large coverage capability
- Carriers balancing
- Unwanted carriers notching
- High density spectrum adapted



- > RADIO COMMUNICATION IN CONFINED AREAS
- > BROADBAND COMMUNICATION SYSTEMS
- > RADIOFREQUENCY CONNECTORS

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Parameters	
Frequency band	350-520MHz
Duplex spacing	10 MHz
Bandwidth	Max 5 or 6.5 MHz
Max RF OUT power (UL & DL)	+6 dBm
Delay	< 6 μs (for TETRA at band edges)
Downlink IP3	43 dBm
Spurious and harmonics	-36 dBm
Total repeater gain (0.5 dB step) (UL & DL)	11 to 100 dB
Squelch threshold (step 1dB) on RF output power	-32 to -20 dBm
Input/output return loss	15 dB
Power supply voltage	24 VDC -48 VDC 110-230 Vac (50-60Hz)
Power consumption	26 W
Battery backup running time	4 H
Dimensions (W x H x D)	440 x 515 x 140 (mm)
Weight	20 kg
Enclosure type & Ingress Protection	IP65
Operating temperature	-10 to +55°C
MTBF	> 70000 H
Monitoring & Control	Ethernet RJ45 & Dry Contacts (3)
RF connectors	N female

Ordering information

170730	Repeater type	Frequency bands	RF output power	Power supply	Remote monitoring	Frequency inversion
-	I	m	n	o	p	q
	A Band selective	A UL: 380-385 MHz DL: 390-385 MHz B UL: 410-415 MHz DL: 420-425 MHz C UL: 415-420 MHz DL: 425-430 MHz D UL: 450-455 MHz DL: 460-465 MHz E UL: 455-460 MHz DL: 465-470 MHz K UL: 380-386.5 MHz DL: 390-396.5 MHz Z Custom duplexer	L Low Power (DL & UL)	0 None (external 24 VDC) 1 110-230 VAC (47-63 Hz) 2 -48 VDC 3 230 VAC + Battery Backup UPS 4 -48 VDC + Battery Backup UPS	N Local only (RJ45)	N No frequency inversion (standard) I Yes (High and Low duplexer ports inverted)

About SEE TELECOM

Since 1972, SEE TELECOM is developing and delivering innovative and reliable equipment in three product ranges: RF connectors, hybrid fiber-coaxial transmission systems and RF communication systems. Our excellent knowledge of RF and fiber communication has resulted in high performance products of excellent, long lasting quality. This had been widely recognized and we are proud of our long relationships with a large number of customers, designing, manufacturing and supporting installation of systems and solutions across the world.