



RAPID, SECURE DUAL-MODE COMMUNICATIONS

KEY BENEFITS

Quickly extends P25 wide area coverage and establishes dedicated communications network

Dual mode interoperability in VHF, UHF and 700/800MHz bands for seamless switching between analog and P25 digital

Remote monitoring via built-in Task Manager

Ensured continuity of service with smart AC/DC switching

Ruggedized for extreme environments with a reinforced, waterproof aluminum chassis

HARRIS P25 TRANSPORTABLE BASE STATION/REPEATER

The Harris P25 Transportable Base Station/Repeater quickly extends wide area coverage and allows rapid set up of an on-site, dedicated communications network. This solution delivers all the trusted features of the TB9100 base station, with a chassis ruggedized to meet extremely demanding environments.

The Harris Transportable Base Station/ Repeater supports Digital P25, analog FM or dual mode for seamless operation among responders and other teams with compatible portable and mobile radios.

A built-in task manager provides capabilities to remotely configure alerts and monitor RF performance. The system is protected by a waterproof Pelican™ briefcase, a

reinforced aluminum chassis and is powered by external battery or smart AC/DC switching for continuity of service.

The Harris P25 Transportable Base Station/Repeater has been successfully tested by the P25 CAP (Compliance Assessment Program), ensuring the same interoperability, encryption and RF performance of the TB9100 site-based solution.

GENERAL

Frequency bands	VHF	UHF	700/800 MHz
Frequency ranges (MHz)	136-174 MHz	380-520 MHz	762-870 MHz
Channel/network capacity	10		
Channel spacing	12.5 kHz, 20 kHz, 25 kHz		
Channel increment	0.125 kHz		
Dimensions (W x H x D)	7.6 x 15.4 x 20.3 in (192 x 392 x 515 mm)		
Weight	<44 lbs (<20 kg)		
Operational temperature	-22° F to 140° F (-30° C to 60° C)		
Description	Modular Repeater		
Power consumption	12V PA		
Standby	0.67A		
Tx @ 50 W factory preset 15 W	5A		
Supply requirements			
Mains	88 to 264 V		
DC	12 V external supply negative earth		

RECEIVER

Analog sensitivity (12 dB SINAD)	<0.25µV (-119.0 dBm)
Digital sensitivity (TIA/EIA-102)	0.21µV (-120.5 dBm) @ 5% BER
Spurious response	≥100 dB [ANSI/TIA]
Intermodulation	80 dB [ETSI] 85 dB [ANSI/TIA]

TRANSMITTER

Modulation limiting	
12.5kHz channel	±2.5 kHz
20kHz channel	±4 kHz
25kHz channel	±5 kHz
Transmitter power rating	Single 50 W Repeater - factory set to 15 W
FM hum and noise	
12.5 kHz and 20 kHz channels	-49.0 dB (300 Hz-3 kHz [ANSI/TIA])
25 kHz channel	-51.5 dB (300 Hz-3 kHz [ANSI/TIA])

About Harris Corporation

Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world.

Learn more at harris.com.

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Tait Limited facilities are certified for ISO9001:2008 (Quality Management System), ISO14001:2004 (Environmental Management System) and ISO18001:2007 (Occupational Health and Safety Management System) for aspects associated with the design, manufacture and distribution of radio communications and control equipment, systems and services. In addition, all our Regional Head Offices are certified to ISO9001:2008.