

L3HARRIS P25 TRANSPORTABLE BASE STATION/REPEATER

The L3Harris 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 L3Harris 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 L3Harris 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.



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 700/800 MHz 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

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° to 140°F (-30° to 60°C)		
Description	Modular Repeater		
Power consumption:	12 V PA		
Standby	0.67 A		
Tx @ 50 W factory preset 15 W	5 A		
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:	
12.5 kHz channel	±2.5 kHz
20 kHz channel	±4 kHz
25 kHz channel	±5 kHz
Transmitter power rating	Single 50 W Repeater - factory set to 15 W
FM hum and noise:	
12.5 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])

Technical specifications are subject to change without notice.
Product sales are subject to applicable U.S. export control laws.

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1025 W. NASA Boulevard
Melbourne, FL 32919