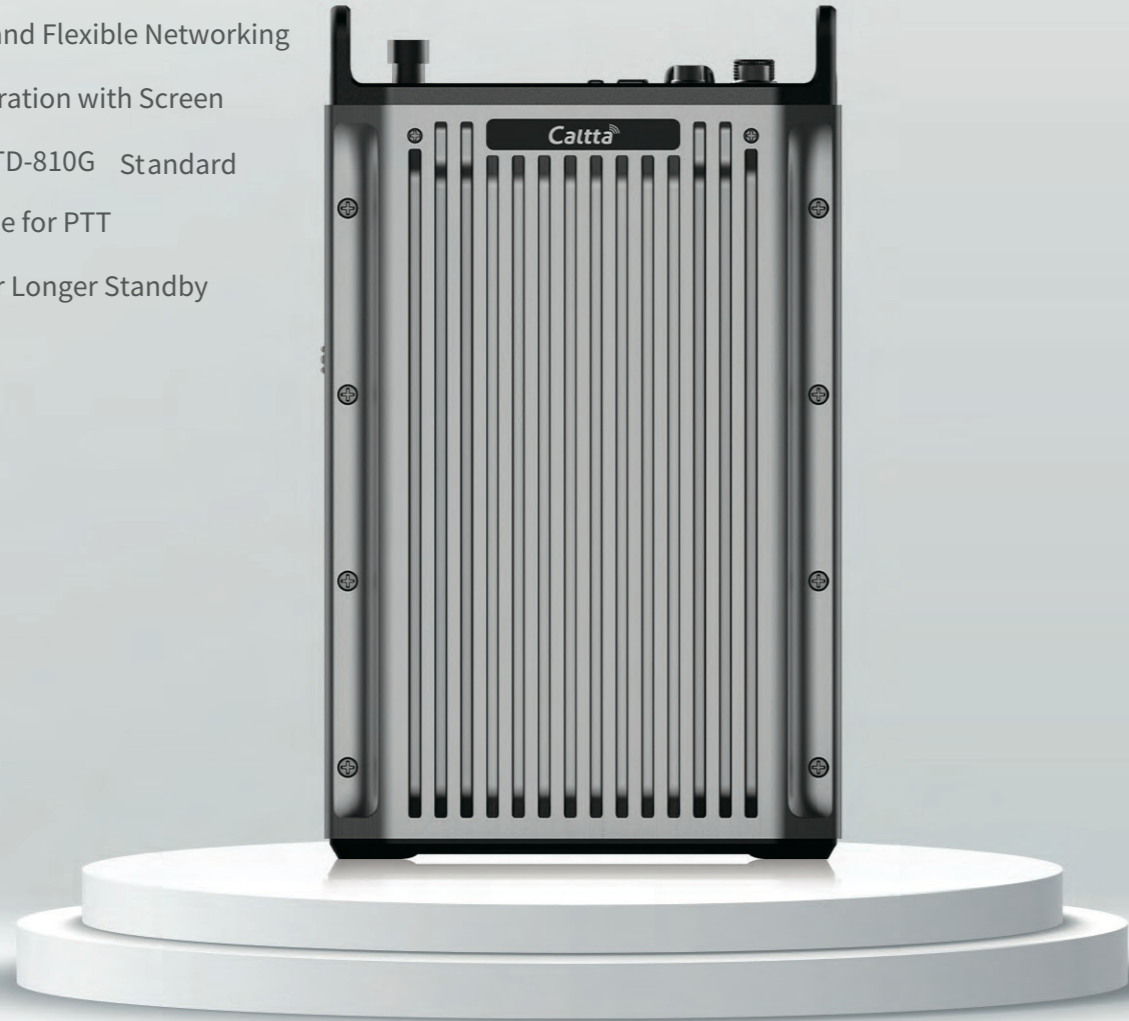


# PR680

## Backpack Digital Conventional Repeater

- Light and Portable for Front-line Application
- High Rx Sensitivity for Better Coverage
- Easy Extension and Flexible Networking
- Convenient Operation with Screen
- IP67 and MIL-STD-810G Standard
- Palm Microphone for PTT
- Large Battery for Longer Standby



## Accessories

### Standard Accessories



Adapter



Battery



Antenna



Microphone

## Specifications

General		Receiver	
Prorocol	DMR Tier II	Analog Sensitivity (Typical)	0.18uV(12dB SINAD)
Frequency	400~470MHz	Digital Sensitivity (Typical)	0.18uV (5% BER)
Channel Spacing	12.5kHz	Adjacent Channel Selectivity	65 dB@12.5KHz / 75 dB@25KHz (TIA603D) 65 dB@12.5KHz / 75 dB@25KHz (ETSI)
Size (H×W×D)	320×190×70mm (With Handle)	Intermodulation	75 dB (TIA603D) 70 dB (ETSI)
Weight	3.7 kg (With Antenna and Battery )	Spurious Rejection	80 dB (TIA603D) 80 dB (ETSI)
Battery Capacity	236Wh @ 14.8V	Blocking or Desensitization	98dB (TIA603D) 95dB (ETSI)
Power Supply	Internal Replaceable Battery External Power Adaptor External Backup Battery	Hum and Noise	-40 dB@12.5KHz /-45 dB@25KHz
Charging	Charging with Repeater Standalone Battery Charging	Audio Distortion	≤3% (Typical)
Standby Current	< 0.55A	Audio Response	+1~-3dB (TIA603D)
Tx Current	10W Tx Power < 4A / 25W Tx Power < 5A	Conducted Spurious Emission	-57 dBm (TIA603D)
Location	BDS/GPS	Transmitter	
Display	2.0 inch 320×240 Cdor LCD, 10 LED Indicators	Frequency Stability	±0.5 ppm
Keypad	Functional Keypad	Output Power	1 ~ 25W Continual Adjustment
Audio Accessory	External Microphone, Earpiece	FM Modulation	12.5KHz: 11K0F3E / 20KHz: 14K0F3E / 25KHz:16K0F3E
Wireless Link	Support Module Extention (Optional)	4FSK Digital Modulation	12.5KHz Data Only: 7K60F1D&7K60FXD 12.5KHz Voice And Data: 7K60F1W
Roaming	Support	Conducted/Radiated Emission	-36dBm ≤1GHz ; -30dBm >1GHz
Vocoder	NVOC/AMBE++ (Optional)	Modulation Limiting	±2.5KHz @12.5KHz / ±5.0KHz @25KHz
Environmental		Hum and Noise	-40 dB@12.5KHz /-45 dB @20/25KHz
Operating Temperature	-30°C ~ +60°C	Adjacent Channel Power	-60 dB@12.5KHz /-70 dB @20/25KHz
Storage Temperature	-40°C ~ +85°C	Audio Distortion	≤3% (Typical)
Dust and Water Resistance	IP67	Audio Response	+1~-3dB
Reliability	MIL-STD-810 G	BDS/GPS Location	
Accuracy specs are for long-term tracking (95th percentile values>5 satellites visible at nominal -130 dBm signal strength )		The specifications in this document are in accordance with the applicable standard test . There are a number of factors that could cause the actual results . Due to the continuous development of technology, Catta may change the information at any time without notice.	
TTF (Time To First Fix) Cold Start	<60s		
TTF (Time To First Fix) Hot Start	<10s		
Horizontal Accuracy	<10m		