

## communications solutions

### AN/PRS-12

The AN/PRS-12 Rucksack Portable Receive Suite (RPRS) is a compact, lightweight Ka-Band satellite terminal designed for single-person transport and set up. It enables access to the US DoD Global Broadcast Service (GBS) Network at the tactical edge.

The AN/PRS-12 has GBS broadcast reception capability up to 45 Mbps, from Wideband Global SATCOM (WGS) transponders. It integrates with all High-Assurance IP Encryption (HAIGE) devices to support single and dual security enclaves from Secret up to Top Secret/Sensitive Compartmented Information (TS/SCI) classification. In addition to imagery, the system also provides access to streaming videos, web content, and other large files. Apart from providing situational awareness to the warfighter, the AN/PRS-12 also provides an alternate communications path, assisting in resiliency through diversity.

The ultra-lightweight AN/PRS-12 terminal provides secure, reliable communications in an expeditionary package and facilitates a much shorter setup and tear-down time to meet high command post mobility requirements. The AutoAQYR (acquire) acquisition algorithm automatically establishes satellite acquisition within three minutes. A Single BA-2590 battery power the AN/PRS-12 continuously for over eight hours. This terminal weighs just over 13 pounds in tactical carry mode. The terminal and other required accessories are conveniently packaged in a one-person lift, airline-checkable, ruggedized, single-case configuration. Every device goes through a series of tests at our in-house facility to ensure quality and performance. It can withstand adverse environmental conditions, including high humidity, blowing sand, rain, and extreme temperatures. The terminal is also compliant with MIL-STD-810G environment standards. It has been fielded as a critical ISR (Intelligence, surveillance, and reconnaissance) platform since 2015 with Special Operation Forces worldwide.



Rucksack Portable Receive Suite

### FEATURES

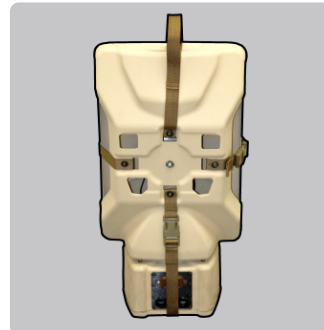
- Operates on Military GBS network
- Receives and processes unclassified to classified
- Capable of processing multiple 45 Mbps broadcast carriers simultaneously
- Quick satellite acquisition
- Enterprise SATCOM Gateway Modem (ESGM) ready
- Low power consumption
- 8+ hours of battery backup for uninterrupted operation
- Simple, intuitive user interface
- Faster user onboarding
- Tool-free assembly
- Small, lightweight, portable, and modular design
- Available in a one-person lift, airline checkable, and ruggedized, single case configuration
- Mission specific accessories available

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# AN/PRS-12

Rucksack Portable Receive Suite

Mechanical	
Antenna Size	11 3/4 x 16"
Antenna Control	Motorized
AZ Range	± 30°
EI Range	0-90°
Pointing Resolution	< 0.1°
Environmental	
Operating Temp	-22°F to 140°F (-30°C to 60°C)
Storage Temp	-40°F to 160°F (-40°C to 71°C)
MIL-STD-810G	Rain, Dust, Sand, Solar Radiation, Vibration, Altitude, Humidity, Drop, Loose Cargo
Electrical / RF	
Power Supply Input	AC input 100-240 VAC 50/60 Hz
Battery Input	DC input 15 VDC from 2590 Battery
Transmit Frequency	N/A
Receive Frequency	20.2 GHz-21.2 GHz
Antenna Gain TX	N/A
Antenna Gain RX	36.2 dBi
G/T	12.3 dB/K
BUC Size	N/A
EIRP	N/A
Tx/Rx Isolation	N/A
Polarization	Circular
X Pol	N/A
Terminal Weight /Size	
Weight	13.2 lbs (5.98 kg)
Size	22.50" x 11.50" x 6" (Stowed)
Packed System Weight/Size	
Weight	53.5 lbs
Size	31.52" x 20.53" x 15.70"



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