

## Terminal At-the-Quick-Halt (ATQH)

ATQH system allows quick installation of a 2.4m dual-band antenna of, allowing simultaneous communication in X and Ka bands. The HPA system includes redundant X and Ka transceivers (BDC, BUC), integrated as part of the antenna subsystem.

The terminal has been fully qualified and certified as follows

- Transportability: rail, fixed and rotary air and munson road
- Environmental: high temp solar, dust & sand, snow & ice, humidity, wind
- EMI MIL-STD-461
- DISA, ARSTRAT & INTELSAT (HISDESAT in progress)
- JITC Certified

### Key features and benefits

- Approved in four frequency bands to operate with commercial and military (DSCS & WGS)
- Reliability and robustness
- Interoperable, scalable and easy to deploy
- MIL-STD 20Mbs Modem: sufficient capacity for future C4 ISR communications
- Remote operation: flexibility in location and resource allocation
- Intratheatre capacity with small aperture terminals: SOTM and Manpack



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## Características físicas generales

- Diameter: 2.4 m
- Dimensions: 2.25 x 2.60 m
- Antenna : 2.80 x 2.25 x 2.10 m.
- Weight: 300 kg
- Platforms:
  - Shelter S3/S778
  - Vehicles VAMTAC



### KEY PERFORMANCE VALUES WITH STANDARD HARDWARE COMPLEMENT

RF/Electrical Parameters	X-band	Ka-band
Frequency Range	$1 \times 10^{-7}$	
Receive antenna gain	43.1 dBi a 7.25 GHz	51.5 dBi a 20.2 GHz
Receive G/T (min.) @ elevación 10°	>24 dBi/K @ 7.25 GHz	>28.0 dBi/K @ 20.2 GHz
Transmit Antenna Gain	44.3 dBi a 7,9 GHz	54.5 dBi a 30 GHz
EIRP	66.0 dBW a 7,9 GHz	71.0 dBW a 30 GHz
Polarization	RX: LHCP TX: RHCP Manually interchangeable	RX: LHCP TX: RHCP Manually interchangeable
Sidelobe performance	MIL-STD-188-164A	Meets ITU 580 y 47 CFR 25.209
Axial Ratio/Cross-pol Discrimination	1.0 dB Tx y Rx Polarization reuse available	< 1.0 dB (Tx) < 1.5 dB (Rx)