

SPECIFICATIONS:

Characteristic	Specification
Size	Airborne: 12 cubic inches, 4.00" (W) x 3.00" (L) x 1.00" (H) Rackmount: 1U 19-inch rack chassis Custom configurations on request
Modulation type	ARTM Tier 0 (PCM/FM) ARTM Tier I (SOQPSK-TG) ARTM Tier II (Multi-h CPM) Legacy suite, including: BPSK, QPSK, Offset QPSK (OQPSK), Asymmetric QPSK (AQPSK), Unbalanced QPSK (UQPSK), Asymmetric Unbalanced QPSK (AUQPSK), Digital PM
RF input frequency, tunable in 0.5 MHz steps	Lower L-band models: 1435.5 - 1534.5 MHz Upper L-band models: 1750.0 - 1855.0 MHz S-band models: 2200.5 - 2389.5 MHz
IF bandwidths	250 kHz, 500 kHz, 1 MHz, 2 MHz, 4 MHz, 10 MHz, 20 MHz, 40 MHz Automatic selection based on modulation type and data rate, with manual override
Bit rates	Tier 0: 30 kbps to 22 Mbps in 1 bps steps Tier I and II: 500 kbps to 44 Mbps in 1 bps steps
Control interface, airborne configuration	Three-wire serial port, 115.2 kbaud
Synchronization time, typical	Tier 0: 250 bits @ 0 dB E_b/N_0 Tier I: 385 bits @ 2 dB E_b/N_0 Tier II: 2,800 bits @ 2 dB E_b/N_0
Acquisition threshold	Tier 0: -2 dB E_b/N_0 Tier I: 0 dB E_b/N_0 Tier II: 2 dB E_b/N_0
Signal interfaces	Serial data with separate synchronous clock, TTL levels

MODEL NUMBERS:

Q S X - R D M S - ○ - ○ ○ ○ ○ ○ - ○

Band (L, U, or S) _____

ARTM Tier 0, PCM/FM (0 or 1) _____

ARTM Tier I, SOQPSK (0 or 1) _____

ARTM Tier II, Multi-h CPM (0 or 1) _____

Legacy (PSK) (0 or 1) _____

Options _____

OPTIONAL FEATURES:

Order by appending options to model number, separated by "-"

- > AB Airborne package (4.00" x 3.00" x 1.00")
 - > RM 19-inch rack mount enclosure (blank front panel)
 - > EC TPC Forward Error Correction
- > FP Keypad & display on front panel (requires RM)
 - > DUAL Two receivers in one chassis (requires RM)