

GENERAL RADIO SPECIFICATIONS	
Frequency Range	70 MHz to 1 GHz
TX Power	44 dBm @ antenna port (25W)
Duplex Method	HD-FDD, TDD
Channel Sizes	5 kHz to 50 kHz
Throughput	Up to 185 kb/s (raw data throughput: up to 300 kb/s)
Topology	Point to Multipoint, Direct Peer-to-Peer (DPP), Any-to-Any
Waveform	Multi-carrier
Air Interface Protocol	802.16t
Modulation	QPSK, 16-QAM, 64-QAM
Forward Error Correction (FEC)	Convolutional Coding (CC) with rates 1/2, 2/3, 3/4
Sensitivity (1% packet error rate with FEC enabled)	Down to -126 dBm
Adaptive Modulation	Dynamically adjusted for each remote in each direction, independent of the other direction
QOS	Best effort, real time polling service, Unsolicited Grant Service

PHYSICAL CHARACTERISTICS	
Power Input	11-36 VDC
Power Consumption	Up to 50W while transmitting at 25 Watts @ 50% duty cycle
Humidity	95% at 40C non-condensing
Dimensions	8.0" x 5.2" x 2.0" (203mm x 132mm x 51mm)
Enclosure Protection Rating	IP 50 Standard
Operating Temperature	-40° C to +70° C

CONNECTORS / INTERFACES	
DC Input	2-pin locking molded cable
DB-25	10-Base-T Ethernet RS-232 Serial Console RS-232 GPS NMEA GPS 1-PPS input (TTL)
USB	USB Type A
Antenna Port	Type N Female, 50Ω.
LEDs	Power, Radio Status, Ethernet, Radio TX, Radio RX, 2x Spare

SECURITY FEATURES IN 802.16T MODE
AES-256 Traffic Encryption
EAP-TLS Based Authentication with X.509 Certificate and RSA-4096 Public Key Encryption
Hardware Based Secure Boot at the Root of the "Chain of Trust"
NIST Certified Hardware Random Number Generator
Memory and services role-based authentication and access control
Trusted Updates: Authenticated and Validated Upgrades and Configuration Changes
Security Patch Management
Secured SNMPv3 Remote Management
SSHv2 Local Management
Security Events Monitoring, Audit Ready
Trusted Platform Module (TPM)

COMPLIANCE
AAR S-9401 / EN-50155
AREMA 11.5.1
ANATEL Type Approval – Category II

Specifications subject to change.