

TWR-207H

Wireless Tactical Edge Router

× Main Features

- Frequency range: 47 MHz – 2700 MHz
- Data rate: from 10 kb/s up to 20 Mb/s
- RF output power: 5 W
- Excellent receiver sensitivity
- Easy IP integration: unicast and multicast
- Adaptive waveform with MANET
- Flexible SDR architecture
- Ethernet, USB, 4G/WiFi dongles
- L3/L2 modes with Internet gateway capability

○ Tactical Edge

Tactical Edge Router TWR-207H is a handheld wireless router designed for portable and dismounted applications requiring seamless integration of various client equipment (smartphones, tablets, laptops etc) into IP networks, such as tactical Internet.

TWR-207H allows Ethernet, USB or WiFi interfacing and supports both IPv4 and IPv6 for unicast and multicast traffic. Equipped with broadband high power RF amplifier, TWR-207H enables operation across extremely broad frequency range 47 MHz – 2700 MHz supporting variable data rate, modulation and coding.



State-of-the-art mobile ad hoc network (MANET) waveform SRDN Release 1.0 designed to meet challenging electromagnetic environment in tactical edge ensures reliable, scalable, and secure network-centric communications for tactical networks operating under disconnected, intermittent, and bandwidth-limited conditions.

Highly flexible software defined radio (SDR) architecture, based on BitSDRTM system-on-module, allows rapid adjustment to any customer specific requirements while maintaining air interface compatibility with other TWR products.





Waveform Features

Features	Value
Release	1.0
Occupied bandwidth	Up to 20 MHz, configurable
Link bitrate	Up to 30.72 Mb/s, configurable
Modulation	BPSK/QPSK
Coding	BCH, configurable
MAC	TDMA with guaranteed latency
Capacity	100+ nodes
Comsec	AES-256
Transec	FHSS, configurable up to 2000 hops / sec ¹
Configuration	Built-in web interface

✕ 1 —ordered separately

Accessories

Features	Product Code
Battery	TWR-205H-BAT
Battery charger	TWR-205H-CHR
USB cable	TWR-207H-USB
WiFi dongle	TWR-207H-WIFI
Ethernet cable, 2/5/10m	TWR-207H-ETH-2/5/10

Product Features

Features	Value
Size	226x86x38 mm
Weight	650 g (without battery)
Battery power capacity	70 Wh
RF connector	TNC female
Frequency range	47-2700 MHz
Typical Runtime	16 h (90/10)
Tx output power	up to 5 W
Gain flatness	±1.5 dB (<1 GHz), ±3 dB (>1 GHz)
Interfaces	Ethernet 1000Base-T, USB2.0 (host and device)
Waveform	SDRN Release 1.0
Protocols	L3: IPv4, IPv6, DHCP (client/server); L2 bridge mode
MANET	Up to 8 hops, static and dynamic routing
Accessories	WiFi, Ethernet, USB cable ¹
Environmental	IPX8 according to IEC 60529, IEC 60068-2, MIL-STD 810H
EMC	MIL-STD 461G, MIL-STD 1275D

○ Visit www.wp2p.org for more information and ordering

