TWR-207H

Wireless Tactical Edge Router

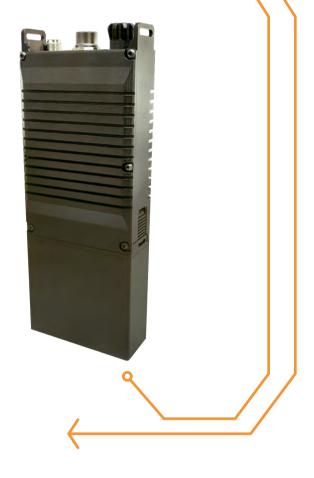
× Main Features

- 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.



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• 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

X 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 cable1
Environmental	IPX8 according to IEC 60529, IEC 60068-2, MIL-STD 810H
EMC	MIL-STD 461G, MIL-STD 1275D

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