# TWR-202D

Made in Sweden 🕂

## Wireless Tactical Edge Router

#### × Main Features

- Lightweight: 450 g
- Power supply: 12-24 V
- Frequency range: 47 MHz 2700 MHz
- Data rate: up to 20 Mb/s
- RF output power: 2 W
- Excellent receiver sensitivity
- Easy platform integration
- Adaptive waveform with MANET
- Flexible SDR architecture
- TDD/FDD mode with FHSS
- Ethernet

### • Tactical Edge

Tactical Edge Router TWR-202D is a lightweight embeddable wireless router designed for drone and small UAV requiring secure and high data rate applications, such as streaming video. This router is fully compatible with other TWR-family devices and can serve as a relay to increase network coverage. Device supports frequency hopping with TDD or FDD modes.

TWR-202D provides Ethernet interface and supports both IPv4 and IPv6 for unicast and multicast traffic. Equipped with broadband high power RF amplifier, TWR-202D enables operation across extremely broad frequency range 47 MHz – 2700 MHz supporting variable data rate, modulation and coding.

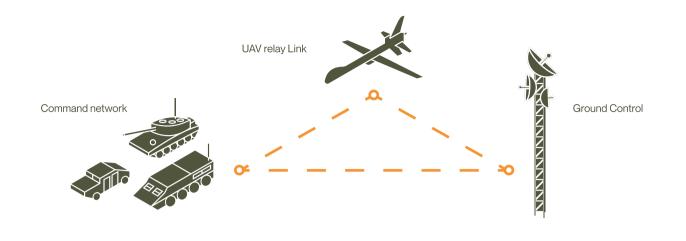


State-of-the-art mobile ad hoc network (MANET) waveform SRDN Release 1.0 designed to meet challenging electromagnetic environment in tactical edge ensures reliable, scalable, and secure networkcentric communications for tactical networks operating under disconnected, intermittent, and bandwidth- limited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



#### Typical Application



#### 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 <sup>1</sup>
Configuration	Built-in web interface

X 1-ordered separately

#### Accessories

Features	Product Code
Power cable with Ethernet	TWR-202D-PWR

#### **Product Features**

Features	Value
Size	140x72x38 mm
Weight	450 g
Power supply	12-24 V
RF connector	2xSMA
Frequency range	47-2700 MHz
Tx output power	2 W
Gain flatness	±1.5 dB (<1 GHz), ±3 dB (>1 GHz)
Interfaces	Ethernet 1000Base-T
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	Ethernet
Environmental	MIL-STD 810H
EMC	MIL-STD 461G, MIL-STD 1275D

#### • Visit www.wp2p.org for more information and ordering

