WEPTAC A.G.
Weapons & Tactics Alliance Group

MANET SYSTEMS

TWO-CASE KIT · MISSION READY

TRELLISWARE STRIKE TEAM MOBILE KIT

Dismounted Team Kit — Ten-Node Tactical Mesh with RF Planning

Two transit cases, ten nodes — TW-950 and TW-875 radios with centralized power management, directional link capability and CloudRF mission planning, purpose-built for dismounted maneuver.

WAG-TW-COM-10-R

THE STRIKE TEAM MOBILE KIT is a complete, fielded-ready ten-node tactical mesh purpose-built for dismounted teams. It integrates TrellisWare Technologies' TW Shadow 950 and TW Ghost 875 radios running the TSM Barrage Relay waveform, with enhanced power management and directional link capability, so a team stands up resilient, self-healing communications *during* maneuver rather than after it. Every node relays, so range extends with each element rather than depending on a single high point.

Ten radios bought on their own are ten integration projects: antennas and cabling per node, batteries and chargers to source, foam to cut, and a build-up window before the first packet moves. The Strike Team Kit closes that gap at the point of purchase — **one part number, one lead time, one receiving action** — and pairs it with CloudRF, so the network is planned before it is carried.

CONFIGURATION
2 CASES
10 Radios · Power · Cabling

SHIPPING WEIGHT
92 LB
Case A 50 lb · Case B 42 lb

RADIOS
TW-950 + TW-875
TSM Barrage Relay waveform

NETWORK ROLE
10-NODE MESH
Every node relays · leave-behind capable

AES-256 COMSEC/TRANSEC · FIPS 197 · MIL-STD-810G · IP68 · TSM WAVEFORM · KATANA NB OPTIONAL · ATAK INTEGRATED

KIT OVERVIEW

MISSION-READY OUT OF THE CASE



CORE CAPABILITIES

TEN NODES, ONE PART NUMBER
Ten radios, centralized power management and all cabling fitted across two cases. Nothing to source, fabricate or cut foam for.

SELF-HEALING ON THE MOVE
Barrage Relay reforms the mesh as the team maneuvers. Net entry is under one second and every node extends the network.

LEAVE-BEHIND RELAY NODES
TW-875 Ghost radios deploy unattended on internal battery to hold a link across dead ground, then recover on the way out.

PLANNED BEFORE IT IS CARRIED
CloudRF models terrain and clutter to fix workable node positions and hop counts before the team steps off — coverage, not line of sight.

Fielded as one team net or split across elements — the same cases, the same peripherals, no reconfiguration.

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WHAT THE KIT REMOVES

LOOSE RADIOS VS. FIELDED TEAM NET

	TEN RADIOS PROCURED ALONE	STRIKE TEAM KIT — WAG-TW-COM-10-R
Antennas & Cabling	Antenna and cable sets specified and ordered node by node	Fitted per node across both cases, matched to band
Power	Batteries and chargers sourced and managed individually	Centralized power management built into the kit
Relay Coverage	Dead ground worked out by trial once the team is committed	TW-875 leave-behind relays fitted, charged and ready
Directional Links	Directional hardware sourced and integrated separately	Directional link capability integrated in the fill
Transport	No protection; cases bought and foam cut for a ten-node fill	Two fitted transit cases — 92 lb total
RF Planning	Coverage discovered on the ground, after the fact	CloudRF models node positions and hops beforehand
Procurement	Line items multiplied by ten, across vendors and lead times	One part number, one lead time, one receiving action

WAG-TW-COM-10-R	Case A · Radios, power management and cabling	24.83 × 19.69 × 11.88 in	**50 lb**
	Case B · Directional link and antenna assemblies	26.61 × 20.65 × 14.87 in	**42 lb**
		TOTAL SHIPPING WEIGHT	**92 LB**

RADIOS — TRELLISWARE TW SHADOW 950 & TW GHOST 875

TSM BARRAGE RELAY · KATANA NB OPTIONAL

SPECIFICATION	TW SHADOW 950 — OPERATOR NODE	TW GHOST 875 — RELAY NODE
Overall Size	5.32 L × 2.76 W × 0.90 H in (135.1 × 70.1 × 22.8 mm)	4.1 L × 2.5 W × 1.5 H in (103 × 64 × 37 mm)
Weight	0.72 lb without battery (325.5 g) · 1.17 lb with battery (530.5 g)	1.0 lb (450 g) including built-in battery
Frequency Range	L-UHF 225–450 MHz · U-UHF 698–970 MHz · L/S bands 1250–2600 MHz	L-UHF 225–450 MHz · U-UHF 698–970 MHz · L/S bands 1250–2600 MHz
Bandwidth	Wideband 1.2, 3.6, 10, 20 MHz · narrowband 6.25, 8.33, 12.5, 20, 25, 50 kHz	Configurable 1.2, 3.6, 10, 20 MHz
Spectrum Pipelining	—	Dual-channel 2×10 or 2×20 MHz, user-selectable spacing · 20 or 40 MHz occupied
Transmit Power	.001 mW, .01 mW, .1 mW, 10 mW, 100 mW, 250 mW, 500 mW, 1 W, 2 W	100 mW, 250 mW, 500 mW, 1 W, 2 W
Power	Rechargeable 32 Wh battery (TW-1450)	5 – 20 VDC · built-in rechargeable battery
Data Rate	50+ Mbps network throughput supported	Up to 32 Mbps point to point
Connectors	ODU data/audio · TNC RF · SMA GPS · 36-pin side connector	USB On-the-Go · RF TNC · GPS SMA
Audio / Video	AMR 5.9, MELPe, AAC audio · SD and HD H.264 video	— (relay node for all TSM services)
Waveforms	TSM · Barrage Beamforming (opt.) · NB LOS · Katana NB (opt.)	TSM · Barrage Beamforming (opt.) · Katana NB (opt.)
GNSS	GPS, built-in or external	GPS, built-in or external
Security	AES-256 encryption (AES standard, FIPS 197)	Built-in AES-256 COMSEC/TRANSEC (FIPS 197)
Environmental	MIL-STD-810H · IP68 to 2 metres	MIL-STD-810G · IP68
Operating Temp.	−20° to +55° C (−4° to +131° F)	−20° to +55° C (−4° to +131° F)
Network Coverage	Barrage Relay · multi-hop to 205 miles (330 km) per hop · hosts multiple waveforms · robust in harsh RF	Barrage Relay · multi-hop to 205 miles (330 km) per hop · net entry under 1 second
Comms Services	Simultaneous voice, data and PLI · 32 voice talk groups · IPv4 / IPv6 unicast, multicast, broadcast · TCP / UDP	Relay node for all TSM services (voice, data, PLI) · IPv4 / IPv6 unicast, multicast, broadcast · TCP / UDP
Applications	Built-in web apps · over-the-air remote control · TW Connect · ATAK support · third-party APIs	Built-in web apps · over-the-air remote control · PLI with CoT, KML and JSON · Android integration · third-party APIs

The TW-950 is the operator's full-featured node — ISR-grade throughput, HD video, 32 talk groups. The TW-875 is the low-profile node: internal battery, small enough to leave behind as an unattended relay across dead ground. Both share common accessories, so one set of cabling and spares supports the whole ten-node fill.

MISSION PLANNING — CLOUDRF

CLOUDRF.COM · PLAN BEFORE YOU DEPLOY

MODEL THE GROUND

COVERAGE, NOT LINE OF SIGHT

– Terrain, clutter and diffraction over global data
– Workable node positions fixed before step-off
– Fewer hops and fewer wasted relay-site moves

RUN IT OFFLINE

SOOTHSAYER SELF-HOSTED SERVER

– Same engine on a laptop or Jetson-class computer
– Global data side-loaded as offline packages
– Containers on Linux or Windows; no connectivity

ON THE OPERATOR'S MAP

ATAK INTEGRATION

– ATAK plugin tasks Area, Multisite, Points, Path APIs
– Live coverage plotted against moving callsigns
– Spotbeam modelling at 2 m resolution
– Open API for the wider mission system

TW Shadow 950 and TW Ghost 875 specifications are manufacturer-published data and are subject to change without notice; a dash indicates a value not published for that model. TrellisWare, TSM, Katana, Barrage Relay, Barrage Beamforming, TW Shadow and TW Ghost are marks of TrellisWare Technologies, Inc. CloudRF and SOOTHSAYER are marks of Farrant Consulting Ltd. Contact WepTac A.G. for band configuration, CloudRF or SOOTHSAYER licensing, and the FCC/IC or export status applicable to your requirement.

REQUEST A QUOTE OR A CAPABILITY BRIEF

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