FREEDOM TO ROAM

Increase worker safety and productivity by enabling seamless movement between communications networks, and access to applications and workflows using an intelligent vehicle network and edge computing platform in a familiar mobile radio form factor.

tait communications

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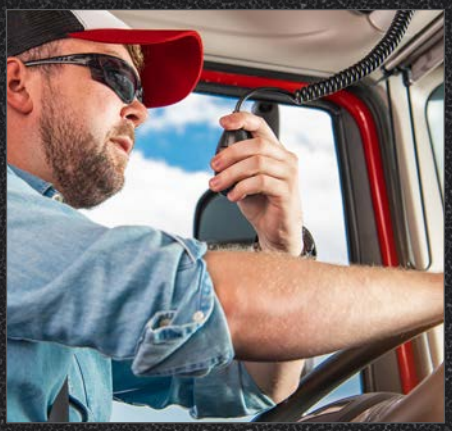
BENEFITS

Officers can upload evidence from a WiFi device through the vehicle's LTE connection.



Transport drivers can use broadband to stay in touch with dispatch through radio dead zones.

Utility workers can automatically be alerted to advancing lightning storms.

Venture Far Beyond Radio Coverage

Work with confidence in and between areas with low or no radio network coverage, automatically switching communications to broadband networks.

Boost the Range of Your Productivity

Turn your vehicle into a communications hotspot, boosting the range of connected portable devices and productivity for the people using them.

Keep Working Past the Network Edge

Ensure work continues, even outside the range of any communications, by hosting and processing workforce applications and their data locally.

FREEDOM TO ROAM

Free your mobile workforce from the constraints of operating within a single communications network by making analog and digital radio, WiFi, Ethernet, and public and private cellular instantly available through an intelligent vehicle network that travels with them.

EXTEND WORK PROCESSES TO THE EDGE

Remove the reliance on remote access to centralized applications by executing work processes locally on a customizable Linux-based edge computing platform. Collected data is stored and can be ready for automatic upload when an approved connection becomes available, after a work order is completed, or at the end of a shift.

AUTOMATE MANUAL ROUTINES USING EXTERNAL INPUTS

Build and execute workflows on the mobile device that use external inputs like location, proximity to sensors or data from third-party providers to trigger pre-configured actions normally performed manually by the user or additional personnel. Automatically notify a fireground crew when wind conditions become dangerous, or open a security gate when a technician arrives on site.

SIMPLIFY AND ENSURE SECURE DATA EXCHANGE

Reduce the complexity and security risk of managing multiple in-vehicle devices by assigning one powerful appliance the responsibilities of a broadband access point, IP router and multi-bearer communications manager. Traffic exchanged between applications and devices, including smartphones, IP cameras and vehicle diagnostic sensors, can be assigned the most efficient and secure connection.

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FEATURES

Large Control Head option keeps everything in dashboard view and allows radio body installation anywhere in the vehicle.

Handheld Control Head option puts all functions in the palm of your hand and allows radio body installation anywhere in the vehicle.

ULTIMATE CONNECTIVITY

Designed to ensure voice and data information always gets through by automatically switching to the strongest signal using WiFi, dual SIM LTE or LMR.

SMART ACCESSIBILITY

Easily connect devices and sensors for smarter control and access by automated workflows, including RJ45 Ethernet and DB-15 serial with configurable GPIOs.

AUTOMATE MANUAL ROUTINES USING LOCATION DATA

Program the mobile device to independently and automatically use its location data to trigger pre-configured actions, such as alerting the driver when entering a hazardous area or opening a security gate upon approach.

ONBOARD VOICE RECORDING

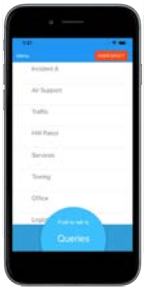
Record every voice call regardless of network or bearer, including off-network calls, to gain post-incident insights for audits, evidence or training purposes.

BROADBAND OTAP

Dramatically reduce LMR network traffic load and the time to deliver updates to the fleet by using broadband connectivity.

REMOTE CONTROL APP

Extend mobile controls to WiFi connected smart devices in range.



MULTI-BEARER ANTENNA KIT

Boost the signal strength of cellular and WiFi devices connected to the vehicle area network.

RUGGED EXTERNAL SPEAKER

Turn the volume up to 15W for loud and clear audio inside or outside the vehicle.

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TECHNICAL SPECIFICATIONS FOR TMX450 / TU2000 / TAIT UNIFIED VEHICLE

GENERAL INFORMATION	
Supported Devices	TM9300,TM9400 Hand Held Control Head (HHCH) or remote Large Control Head (LCH) configurations
Dimensions	
Body – in (mm)	Height 25W: 2.1 (52), 30W/35W/50W: 2.1 (52) Width 25W: 6.3 (160), 30W/35W/50W: 6.3 (160) Depth 25W: 6.9 (175), 30W/35W/50W: 7.7 (195)
Graphical Control Head – in (mm)	Height: 2.8 (71), Width: 7.24 (184), Depth: 1.38 (35)
Weight – lb (kg)	
Body	25W: 2.6 (1.2), 30W/35W/40W/50W: 3.1 (1.4)
Control Head	0.73 (0.33)
LMR Performance & Regulatory Data	Refer to TM9300 or TM9400 specifications
Speaker	Internal 3W with LCH. External 10W or 15W options for LCH or HHCH
Industry Certifications	Safety (IECEE Certification Bodies Scheme, UL 60950) Vehicle Usage (ISO7637-2, EMark) Environmental (RoHS, WEEE)
Hardware Processor	AM3352 Sitara, ARM Cortex-A8 32 bit 600MHz
Memory	RAM 512MB DDR3 1GB SLC NAND Flash plus Embedded 16GB Flash Card Storage
Operating System	Linux (Open Embedded LTS)

CONNECTIVITY	
WLAN (WiFi)	2.4 GHz IEEE802.11b/g/nSISO20 MHz 5GHz IEEE802.11a/ nSISO20/40 MHz Access point/station/direct (simultaneous or independent use), supports up to 10 clients
LAN (Ethernet)	mDNS, DNS Proxy, DHCP Server, DHCP Client, 10/100Mbps
LTE	
North America & Canada TMX455 / TU2000-M4 Type Code TUFM4B	NA (Cat4) PTCRB, FCC ID CASTUFM4B, IC ISED ID 737A-TUFM4B (contains 5131A-LE910NAV2) 4G/LTE Bands: B2, B4, B5, B12, B13 3G Bands: B2, B5
FirstNet ReadyTM TMX456 / TU2000-M5 Type Code TUFM5E	NF (Cat4) FCC ID CASTUFM4B, contains RI7LE910CXNF 4G/LTE Bands: B2, B4, B5, B12, B13, B14, B66, B71 3G Bands: B2,B5
Europe TMX454 / TU2000-M2 Type Code TUFM2D	EU (Cat4) ETSI, CE, E-mark E10 10R-05 10892 4G/LTE Bands: B1, B3, B7, B8, B20, 3G Bands: B1, B8 2G Bands: B3, B8
Asia Pacific TMX453 / TU2000-M6 Type Code TUFM6C	AP (Cat1) ETSI, RCM, Anatel ID 06461-19-01749 4G/LTE: B1, B3, B5, B8, B28 3G Bands: B1, B5, B8
IP routing	WiFi-to-Cellular, Ethernet-to-Cellular, Ethernet-to-WiFi
SIM Card	Dual nano-SIM
GNSS (GPS/GLONASS)	Option External Receiver

ENVIRONMENTAL	
Ingress Protection	IP54
MIL-STD	810 G

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