



InterTalkTM Encompass Mobile Dispatch Console

INTERTALKTM ENCOMPASS MOBILE DISPATCH CONSOLE

InterTalk's Encompass dispatch and control console system is a tactical, field-deployable unit that provides your mission-critical operations an instant and centralized point of communication. With the InterTalk Encompass, an operation's field team can establish a central point of communications in under 5 minutes. With Encompass, connecting to all other Citadel IP Radio Gateway units in the field is easy, whether connected locally or across an IP network. The InterTalk Encompass provides instant access to field units, regardless of the band or format they utilize, and allows you to quickly and effortlessly set up and pull down joined networks, while simultaneously monitoring everything that is happening across all connected networks. Encompass allows full voice and data communications with all field units as well, giving you real-time command and control of 4 base stations using pre-fabricated interconnection cables for most major mobile radio manufacturers. Whatever method of communication you use, InterTalk Encompass' flexible design enables you to strike the right balance between what to see, when to see it, and what to do about it. Whether it is public safety, transportation, critical infrastructure, government, or private enterprise applications, InterTalk Encompass allows effortless, powerful, and continuous management of your critical information. InterTalk is engineered to the highest standards of availability, and is simply the most complete mobile console system available.

EXACT-FIT ENGINEERING

InterTalk has an interface for any communication requirement in both your operations center and the field. Whether it is legacy LMR, or the latest digital protocols like P25, DMR, or TETRA, our collaborative approach to system design will result in a deployable system that meets your exact operational needs. InterTalk Encompass provides you one consistent dashboard, so no matter the technology, it works the same where it matters most: in the field. Dispatch roles and screens can be configured to display the exact functions you need in your field operations.

FLEXIBLE DESIGN

Each InterTalk Encompass features the InterTalk console, and 1 Citadel IP Radio Gateway unit. The Citadel units can be deployed as endpoints throughout a given IP network, and can connect with each other both locally and over vast distances using IP. This ability allows you to quickly setup an interoperability solution not only between different radio networks available locally, but also across geographical regions. Interoperability connections are configured via an IP-connected laptop (or PC) using a standard browser like Firefox or Chrome. The management dashboard lets you easily check, set, and test levels and PTT operation. VOX-based buffering is used to ensure that no audio is ever lost - while default settings will work in most cases, all VOX and buffer parameters can be fully configured within the Encompass dashboard.

QUALITY ASSURANCE

InterTalk Critical Information Systems is an ISO 9001:2015 and ISO 27001:2013 certified company.



InterTalk™ Encompass Specifications

CITADEL NMESH

Features	DTMF Tone Call-In, RSSI Indicator, Auxiliary Input, COR Input, Relay Control, Local Radio Control, MDC1200 Protocol Support
Line Types	Two-wire, Four-wire, Six-wire
Inputs/Outputs	LAN, USB (slave only), E&M Signaling Types I - IV, FXO, Switched Inputs, Dry Relay Outputs, Wet Outputs, 12-18/5/3, 50mA [200mA total], RS-485
Signaling	DTMF In/Out, E/M Lead, Voltage In/Out, Current In/Out, EIA Tones, Loop Start
Environment	Temperature Range of -40F to 149F (-40C to 65C)
Power	12-18 Vdc @ 250mA
DTMF Decode	Dynamic Range (in dB) Configurable, Twist (in dB) Configurable, Acceptable signal-to-noise ratio (in dB) Configurable, Tone encode resolution < +/- 0.1Hz
Telecom Agency Approvals	IC CS-03 Certification

SYSTEM INTERFACES

Analog RF	EDACS, Smartzone, Smartnet, iDEN
Paging Formats	QC-II, 5/6 Tone, REACH, POCSAG, ERMES, FLEX, GE, RCA, EIA, 2-tone/4-tone, Aviation ALE, SELCAL, DTMF
Signaling Formats	MDC1200, GE Star, Fleetsync, FSK, MSK, GMSK (Intrac)
Integrated Voting & TX Steering (InterTalk console system)	Vote on best SNR, RSSI (serial, Ethernet, voltage, limiter current). Compatible with existing systems. Console user sees vote/UNSQ status and has full control. TX steering to voted site, multiple sites, per UNSQ sites, rule-based steering. Console user steers release, status and over-ride control.
Voting & TX Steering (3rd Party)	Ethernet control of JPS SNV-12 series. Full status reporting and control.
Legacy Key-up	PTT/COR, EIA TRC Guardtone, E&M
Telephony	SIP-I/SIP-T, FXO, FXS, T1/E1, ISDN, G.703, V.35, ringdown, SS7 signaling
Digital RF	P25 (ISSI/CSSI, DFSI) DMR Tier 2, DMR Tier 3, TETRA



DISPATCH CONSOLE LAPTOP

Processor	Intel® Core™ i3 or better
Operating System	Windows 7 Pro, Windows 8.1 Pro, Windows 10 Pro
Memory	4GB or better
Hard Disk	500GB or better
USB	Standard laptop-provided
Video Card	1920x1080 resolution, 14" monitor or larger recommended
Pointer	Integrated or USB mouse and/or touchscreen
Keyboard	Laptop-integrated



PORTABLE CARRYING CASE

Waterproof	Yes
Injection-molded	Yes
Impact resistant	Yes
Rack space	2U (holds up to 2 Citadel units)
Weight	15.2 lb, 6.9 kg
Origin	USA

