Presenting

InterLink™ 420

ONLY TACTICAL RADIO WITH TRANSMIT BEAMFORMING - UP TO 40% INCREASE IN RANGE

IP67 RUGGEDIZED HANDHELD FOR MESH NETWORKING IN HARSH ENVIRONMENTS

4W TRANSMIT POWER WITH UP TO 12HR BATTERY LIFE AND COOL OPERATION

HIGH FIDELITY (G.722) INTEGRATED PUSH-TO-TALK

100+ MBPS THROUGHPUT

Specialists in High-Speed Mobile IP
Global InterLink Corporation

InterLink™ 420

General

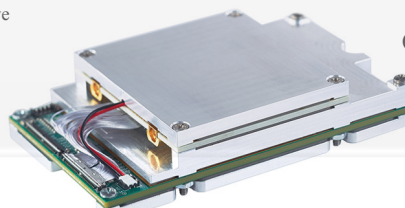|	
Waveform	Mobile Networked MIMO (MN-MIMO™)
Channel Bandwidth	5, 10, 20 MHz (1.25*, 2.5*)
Encryption	DES Standard, AES/GCM 128/256 Optional (FIPS 140-2), Suite B
Data Rate	100+ Mbps (Adaptive)
MIMO Techniques	Spatial Multiplexing, Space-Time Coding, TX Eigen Beamforming, RX Eigen Beamforming
Total Output Power	1mW – 4W Variable (up to 8W Effective w/ TX Beamforming)
PTT Voice Codec	G.711/G.722
Latency Sensitivity	7ms Average (20MHz BW)
	-99 dBm @ 5MHz BW
Frequency Bands	Bands from 400MHz to 6GHz Available Dual Band Optional
Onboard Storage	64 GB*
Diagnostics:	Spectrum Scanning, Temperature/Voltage Monitoring

Frequency Band Options

Band (Freq. Code)	Frequency Range	Band (Freq. Code)	Frequency Range
UHF (042)	400-450	Low C Band (455)	4400-4700
ISM 900 (091)*	902-928	Federal C-1 (467)	4400-4940
L Band (137)	1350-1390	Federal C-2 (469)*	4400-4990
Upper L (181)	1780-1850	High C Band (485)	4700-5000
Broadcast A (209)	1980-2200	5.2GHz ISM (520)	5150-5250
Broadcast B (206)	2025-2110	5.8GHz ISM (580)	5725-5875
Federal S (225)	2200-2300		
S Band (235)	2200-2500		
2.4GHz ISM (245)	2400-2500		

(All bands listed in MHz)

Note: If band of interest is not listed, please contact a sales representative

(*) In development

Mechanical

Ambient Temp.	-40° to +65° C
IP Rating	IP-67 (Dust / Immersion in Water up to 1m)**
Dimensions (Excluding Connectors)	4.00” x 2.63” x 1.51” 101.6 x 66.8 x 38.35 mm
Weight	15 oz.
Color	Black Anodized
Mounting	4-Hole Mounting Patterns (Through-Hole)

Power

Voltage	9 – 20 VDC
Power Consumption	4.8 W – 24 W @ 4W TX Power
	4.8 W—16 W @ 1W TX Power
Battery Life	Up to 12 Hours (6.8Ah MBITR Battery)
Power Options	Twist-Lock Battery (BB) or Front Panel (EB)

Interfaces

RF	2x TNC(f)
Primary	Ruggedized Circular Connector [1 x Ethernet, 1x RS232, DC Input (EB Version)]
Auxiliary	Ruggedized Circular Connector [1 x USB 2.0 Host, 1 x USB 2.0 OTG]
PTT (Push-to-Talk)	Ruggedized Breakaway Connector (Front Panel)
Status Indicator	Tri-Color LED
Management Interface	Web-Based StreamScape™ Network Manager

Mechanical – OEM
(Pictured Below)

Dimensions	3.61” x 2.15” x 0.71” 91.7 x 54.61 x 18.03 mm
Weight	4.1 oz (w/ Outer Shields)
RF Connectors	SMP (m)

(**) Must have all connectors mated with IP67+ cables/antennas

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