

# ARLINK

5220 BAND3, BAND4

ETHERNET RADIO

#MilitaryCommunication



**aselsan**

# ARLINK

## 5220 BAND3, BAND4 ETHERNET RADIO

aRLINK 5220 Band3 & Band4 is the high capacity line of sight (HCLOS) Ethernet radio operating in Layer 2, designed and manufactured by ASELSAN for tactical use to provide secure and reliable communication.

It supports up to 200 Mbps Ethernet throughput (100 Mbps full-duplex) under ideal conditions, using Orthogonal Frequency Division Multiple Access (OFDMA) and 2x2 MIMO technologies. Furthermore, it has a communication range of more than 100 kilometers.

aRLINK 5220 Band3 & Band4 offers a set of Electronic Counter Counter Measures (ECCM) including full band adaptive frequency hopping, hardware-based encryption, automatic transmit power control (ATPC), adaptive modulation and coding (AMC) in order to overcome electronic warfare threats.

It can operate in NATO Band-IV (4.40 – 5.00 GHz) and NATO Band-III (1350-2690 MHz). The aRLINK 5220 Band3 & Band4 radio also supports four different bandwidths (5, 10, 20, 40 MHz), providing the tactical users the capability to efficiently utilize the limited frequency spectrum.

Point to point (PTP) and Point to Multi Point (PMP) modes are available.

### General Features

- Frequency band : NATO band-III+ (1350 – 2690 MHz)  
NATO band-IV (4400 – 5000 MHz)
- Operating modes : PTP (Point to point), PMP (Point to multi point) [Up to 3 sectors]
- Power requirements : AC: 220 ± %10 V, 47.5-52.5 Hz

### Point to Point (PTP) Performance

- Throughput : 100 Mbps full-duplex, 200 Mbps total
- Ability to distribute capacity flexibly with adjustable downlink/uplink ratios
- Max Range : Beyond 100 km LOS

### Electronic Counter Counter Measures (ECCM)

- Full band frequency hopping
- Noisy channel avoidance
- Automatic power control
- Adaptive modulation and coding
- AES-256 encryption

### Wireless Communication

- Transmission : OFDMA, 2x2 MIMO, TDD, configurable DL/UL ratio
- Channel size : 0.3125, 1.25 (Only PTP), 5, 10, 20, 40MHz
- Channel resolution : 312.5 kHz
- TX power : 24.5 dBm (max: 26.5 dBm @ antenna alignment mode)
- RX sensitivity : -102 dBm (10 MHz, QPSK modulation)
- Modulation : QPSK, 16QAM, 64QAM, 256QAM (Only PTP)

### EMI/EMC

- MIL-STD-461F

### Environmental Conditions

- MIL-STD-810G

### Accessories

- EOW hand terminal
- Tactical F/O and power cables
- Antenna

