C2TECH

60 GHz
RADIO LINK TERMINAL

Full Outdoor Usage

CTECH V-band solution highly integrates full-outdoor product operating at the V band. Its antenna, RF and baseband units are integrated into a single outdoor unit. So it is much smaller, lighter comparing to traditional microwave systems. Suitable for short-haul transmission and dense deployment.

The radio link is in full-duplex (FDD) system configuration. In a FDD V-Band system, any two blocks of frequencies between 57-64 GHz are used for transmission or reception, depending upon the availability of Duplexers. This causes higher throughputs. In a TDD system, radio link can work in the **TX or RX model** independently.

With integrated manageable switch, radio can handle **L2, OAM** functions.

TURKISH AEROSPACE SUBSIDIARY

FDD V-BAND RADIO LINK
Small & Lightweight
Microwave System
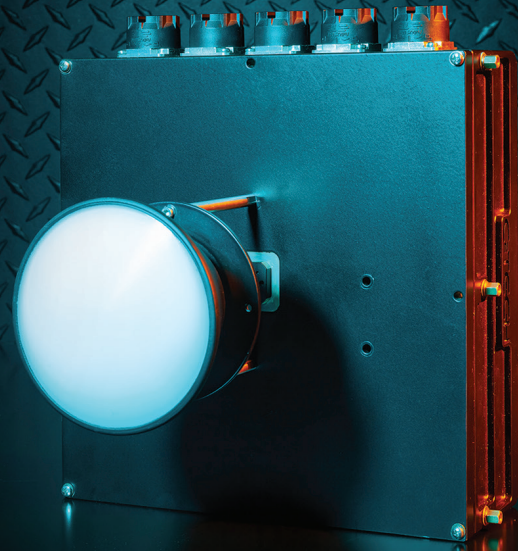
TECHNICAL SPECIFICATION

RF SPECIFICATIONS

Frequency	• 57-64GHz
Distance	• 300m with 99.99% availability
Antenna	• 34 dBi, 3° beamwidth

BASEBAND SPECIFICATIONS

Bandwidth	• 50MHz - 2GHz
Baud Rate	• Max 1600mBd
Data Rate	• Up to 10Gbps
Modulation	• BPSK-256 QAM
FEC	• Configurable RS FEC
Duplexing	• FDD
Electrical Interface	• 1x Copper 1 GbE, 1x Fiber 1 GbE, 2x 10 GbEdth
Management Interface	• Ethernet / Web-Based Management
Link Quality Output	• MSE Estimator, Radial MSE Estimator, Normalized Esimator
Ethernet Capacity	• Over 10Gbps
Ethernet Capabilities	• Jumbo packet 14K, Full duplex, Auto Negotiation, SyncE, Link Monitor, • 1588v2, Look back capabilities
TX Baseband Blocks	• TX Modulator, Mapper, Air frame construction, Preamble symbols, • ACMB symbols, Payload Symbols, Dummy symbols, Pilot symbols, • Tx shaping filtering, Rate adaptor, Predistortion, Tx distortion correction, • Frequency adjustment - fsample/8, Gain correction +6/-12 dB
RX Baseband Blocks	• External AGC, RX distortion correction, Coarse frequency correction, • Rate adapter, AGC, RX matched filter, Timing air frame correlator, Equalizer, • Slicer, FEC, Ethernet
Latency	• Capable for fixed latency
IEEE 1588v2	• Included
Sync-E	• Included