

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





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	

