



60 GHz

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.



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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 GbE

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 - $f_{\text{sample}}/8$, Gain correction +6/-12 dB
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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
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Latency	Capable for fixed latency
IEEE 1588v2	Included
Sync-E	Included