NetBeam M72

The NetBeam M72 radio delivers ultra-high capacity wireless point-to-point Ethernet connectivity that future-proofs your network. With an aggregated throughput of 700 Mbps over the uncongested 71-76 GHz spectrum using TDD, service providers and businesses can deploy affordable, high capacity wireless links that are easy to install and maintain.

The NetBeam M72 radio is based on Netronics' advanced integrated-silicon technology, which increases reliability and reduces size and cost. The result is a very small, very light radio with a 90-year MTBF and an unbeatable price/throughput.

The E-band spectrum is uncongested, even in dense urban areas. Use of a high-gain, pencil-beam antenna guarantees available spectrum anywhere and maximizes spectrum re-use. E-band also offers low licensing fees and quick licensing processes.

High throughput and low latency combine to deliver fiber-like performance. The NetBeam M72 incorporate Hitless Adaptive Bandwidth Coding and Modulation for high availability. And an integrated L2 switch with an extra port enable service differentiation and SLA guarantees without the need for additional equipment.

Product Highlights

- Future-proof high 700 Mbps throughput, you won't have any near term visits to the site to upgrade capacity
- Allocate different download/upload rates with asymmetric capacity configuration (our IPTV providers like this feature)
- Always find spectrum in the 71-76 GHz E-band. Thanks to a narrow beam width, there is zero interference. It's also lightly licensed in most of the world, with lower costs and an extra quick licensing process
- Advanced all silicon integration increases reliability and reduces prices, so you get a high ROI and the lowest price/Mbps
- Proven high availability in any weather condition (including monsoons and hurricanes) so your users enjoy consistently high performance
- Think small – small power consumption (PoE), small size (31cm or 12" diameter), and very light weight
- Quick and simple installation, "as easy as wifi" is what our customers say about it

Product Specifications

Radio

Frequency Band	71-76 GHz
Duplexing Scheme	TDD
Modulation	QPSK-1/QPSK-2/QPSK-3/QAM16/QAM64
Adaptive Rate	Hitless adaptive bandwidth, coding and modulation, boosting system gain by 21 dB
Throughput	700 Mbps aggregated (with asymmetric/symmetric downlink/uplink rate)
Link Budget (BER=10^{-6})	185 dB (Including 2 ft antenna gain)
Interfaces	2xGbE combo ports, each either RJ-45 or SFP slot
Antenna	External 2 ft (65 cm), 50 dBi
Power	PoE+ (IEEE 802.3at) Wide-voltage input: ±21+57VDC
Ethernet features	VLAN (IEEE 802.1q) and VLAN stacking (Q-in-Q, IEEE 802.1ad Provider Bridge) IEEE 802.1d Transparent Bridging QoS, traffic shaping and policing MEF 9,14 and 21 compliant Jumbo frames up to 16k
Network Topologies	Ring, daisy chain, mesh
Encryption	AES 128-bit and 256-bit
Management, provisioning & commissioning	Web GUI (one click management of local & remote units), embedded CLI, SNMPv2/3, in-band, out-of-band Zero touch turn-up, TACACS+, RADIUS
Regulatory	ETSI EN 302 217, FCC 47 CFR part 101, CE marked, EMC, safety UL60950

Environmental	
Operating temperatures	-45°C to +55°C
Ingress protection rating	IP67
Dimensions	
ODU	(H x W x D) - 24.5 cm x 22.5 cm x 5 cm (9.7” x 8.9” x 2”)
ODU + 2 ft antenna	(Dia. x Depth) - 65 cm x 37 cm (25.6” x 15.35”)
Weight	
ODU + 2 ft antenna	9.4Kg (20.7 lbs)

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