

Microcell & Hot Spot CPE Long Distance - Integrated Antenna



Integrated Radio and Antenna

The solution to "dark zone" signal coverage problems in your wireless network..

Outdoor 5GHz CPE with built-in antenna and a secondary 2,4GHz or 5GHz radio module, connected to an external antenna header, for the creation of a "micro-cell" or of an hot spot 2,4GHz area to distribute WiFi signal.

The enclosure and antenna section are completely designed and manufactured by Linkit.

802.11n for data rate up to 300Mbps

Using the integrated panel antenna and the IEEE 802.11a/n standards, the device allows to achieve unprecedented effective bit rate: up to 300Mbps on CPE side; up to 150Mbps on microcell side.

Model	Antenna		Data Input	Standard	
	CPE Side	Microcell side		CPE Side	Microcell Side
CHR455N	MIMO 20+20dB	5GHz SISO External	LAN	802.11a/n	802.11a/n
CHR452N	MIMO 20+20dB	2,4GHz SISO External	LAN	802.11a/n	802.11b/g/n

Modell	Band		Data Rate	
	CPE Side	Microcell Side	CPE Side	Microcell Side
CHR455N	5 GHz	5GHz	300Mbps	150Mbps
CHR452N	5 GHz	2,4GHz	300Mbps	150Mbps



High performances and flexibility

The Chronocell product line builds upon the functionality of the proven Chronofly CHR500FN by adding a second radio module with external antenna; these devices allow to easily set up a local "micro cell" area or an "hot spot" area 2,4GHz or 5GHz, accordingly with used device.

The devices run the RouterOS software and are fully compliant with the IEEE802.11a, b, g, h, n standards. The combination of a high-gain antenna with the integrated routing, NAT and WDS functions enables the easy design and deployment of large networks without sacrificing maintainability and scalability.

Features

- Small size
- PoE power supply
- 20 - 50mm pole mounting brakets

CHR455N

CHR452N



Technical Characteristics	CHR455N		CHR452N	
	CPE Radio	Microcell Radio	CPE Radio	Microcell Radio
Nr. Radio Module	2		2	
IEEE Standard	802.11a/n		802.11a/n	802.11b/g/n
Frequency	5.470 – 5.725 MHz		5.470 – 5.725 MHz	2,400 - 2,483 GHz
Modulation	DSS (DBPSK, DQPSK, CCK)	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		
Channel Bandwidth	5 MHz - 10 MHz - 20 MHz - 2x20 MHz			
Maximum Output Power	1 W EIRP	+ 18dBm	1 W EIRP	+ 18dBm
Antenna Type	Integrated Flat Panel H e V Pol.	N.A.	Integrated Flat Panel H e V Pol.	N.A.
Antenna Gain	20 + 20 dB	N.A.	20 + 20 dB	N.A.
Antenna f/b ratio	> 20 dBi	N.A.	> 20 dBi	N.A.
Antenna Beamwidth	H e V : 18° @ 3dB	N.A.	H e V : 18° @ 3dB	N.A.
Rx sensitivity (Including antenna gain - if applicable)	-115dBm @ 6Mbps	-96dBm @ MCS0 20MHz	-115dBm @ 6Mbps	-93dBm @ MCS0 20MHz
	-97dBm @ 54Mbps	-91dBm @ MCS0 40MHz	-97dBm @ 54Mbps	-91dBm @ MCS0 40MHz
	-115dBm @ MCS0 20MHz	-76dBm @ MCS7 20MHz	-115dBm @ MCS0 20MHz	-77dBm @ MCS7 20MHz
	-97dBm @ MCS7 20MHz	-73dBm @ MCS7 40MHz	-97dBm @ MCS7 20MHz	-74dBm @ MCS7 40MHz
Wireless Mode	Access Point, Bridge, Repeater, WDS Station, Hot Spot, Virtual A.P.			
Data Encryption	WEP 64/128 bit; WPA, WPA2, TKIP, AES-CCM-TKIP, PSK/EAP, Mac Filtering, IP Filtering, Radius Server, Proprietary WDS, Firewall Integrato			
Ethernet Standard	10/100/1000 Base-T Gigabit — Auto MDI/X — standard 802.3			
VLAN Support	802.1q - Multiple VLAN interface – Inter VLAN routing			
VPN Support	IPSEC, PPPoE, EoIP, PPTP, L2TP			
QoS Support	802.1p - IPTos RFC791 - CBQueueing - PCQ, RED, SFQ, FIFO queue - CIR - MIR - peer-to-peer management			
Network Routing	OSPF – RIP - BGP - STP - RSTP - NAT – MPLS – IPv6 - MME			
Management	Telnet, SSH, FTP, Proprietary GUI, http, WEB			
MIMO Standard	2 x 2	N.A.	2 x 2	N.A.
Power Supply	18V dc 400mA – P.O.E.			
Operating Temperature	- 20°C / +55°C			
Dimension mm (H x L x DP)	255 x 255 x 70			
Weight	1,4 Kg			
Protection	IP67			
Standards	EN301893 EN301489-17 EN60950-1 ERC70-03			