LINKIT
SISTEMI WIRELESS
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CHRONOFLY CHR500

Modem Bridge - CPE
Built-in Antenna - Long Distance

Built-in radio and antenna

The ideal complement for your wireless network, based on **CHRONOLINK, MEDIAFEED, MEDIAFEED PLUS** or **URBAN** solutions**.**
Professional 5GHz wireless LAN CPE for outdoor installation, with built-in SISO or MIMO antenna, for long distance connections.
CHR500 can be used:

- as bridge in point to point networks;
- as client in point to multi-point networks.

The enclosure and the antenna section are completely design and manufactured by Linkit.

802.11ac for data rate up to 867Mbps

Using the integrated antenna and the IEEE 802.11a/n/ac standards, the device allows to achieve unprecedented effective bit rate of up to 867MBps

Optical fiber input option

CHR500F-ACF make available data input through optical fiber connection, allowing to cut-out of all the noises due to high power interferences on LAN data cable.
Following table shows the available CHR500.

Model	Antenna	Data Input	Standard	Band	Data Rate
CHR500F	SISO 20dB	LAN	802.11a/n	5 GHz	150Mbps
CHR500FN	MIMO 20+20dB	LAN	802.11a/n	5 GHz	300Mbps
CHR500F-AC	MIMO 20+20dB	LAN	802.11a/n/ac	5 GHz	867Mbps
CHR500F-ACF	MIMO 20+20dB	FIBRA OTTICA	802.11a/n/ac	5 GHz	867Mbps

High flexibility and strong performances

The Chronofly product line is specifically engineered to meet the requirements of even te most advanced wireless operator. All devices run the RouterOS software and combine a high-gain antenna with integrated routing, NAT and WDS functions, allowing the easy design and deployment of large networks without sacrificing maintainability and scalability.

Features and accessories

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

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Technical Characteristics	CHR500F	CHR500FN	CHR500F-AC	CHR500F-ACF
IEEE Standards	802.11a/n		802.11a/n/ac	
Frequency	5.470 – 5.725 MHz			
Modulation	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)	
Channel Bandwidth	20 MHz - 2x20 MHz		20 MHz - 2x20 MHz - 4x20 MHz	
Antenna Type	Integrated Panel H or V Pol.	Integrated Panel H and V Pol.		
Antenna Gain	20 dB	20 db + 20 dB		
Antenna Beamwidth	H e V : 15° @ 3dB	H e V : 18° @ 3 dB		
Antenna f/b ratio	> 20 dBi			
Maximum Output Power	1 W EIRP			
Tx Power Adjustment	20 dB step 1 dB			
Rx Sensitivity (including antenna gain)	-115dBm @ MCS0 20MHz -110 dBm @ MCS0 40MHz -95 dBm @ MCS3 20MHz -92 dBm @ MCS3 40MHz	-115dBm @ MCS0 20MHz -110 dBm @ MCS0 40MHz -95 dBm @ MCS7 20MHz -92 dBm @ MCS7 40MHz		
Wireless Mode	Bridge - WDS - Station			
Data Encryption	WEP 64/128 bit; WPA, WPA2, TKIP, AES-CCM-TKIP, PSK/EAP, Mac Filtering, IP Filtering, Radius Server, Proprietary WDS, Integrated Firewall			
Etehrnet Standard	10/100 Base-T - Auto MDI/X standard 802.3		10/100/1000 Base-T Gigabit — Auto MDI/X — standard 802.3	
Optical Characteristics	N.A.			See tab.
VLAN Support	802.1q - Multiple VLAN interface – Inter VLAN routing			
VPN Support	IPSEC, PPPoE, EoIP, PPTP, L2TP			
QoS Support	802.1p - IPToS RFC791 - CBQueuing - 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			
Antenna Standard	SiSO 1 x 1	MiMo 2 x 2		
Power Supply	12V dc 350mA – P.O.E.		12V dc 450mA – P.O.E.	
Operating temperature	- 20°C / +55°C			
Dimension mm (H x L x P)	255 x 255 x 70			
Weight	1,3 Kg			
Safety Rating	IP67			
Stabdards	EN301893 EN301489-17 EN60950-1 ERC70-03			

Optical Characteristics

Optical fiber connection is permits thanks to the integration of an SFP transceiver with the following characteristics

Characteristics	Description
Connector	Dual LC
Optical fiber type	MM
Wavelenght	850nm
Data Rate	1,25 Gbps
Max lenght optical fiber	550 m

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