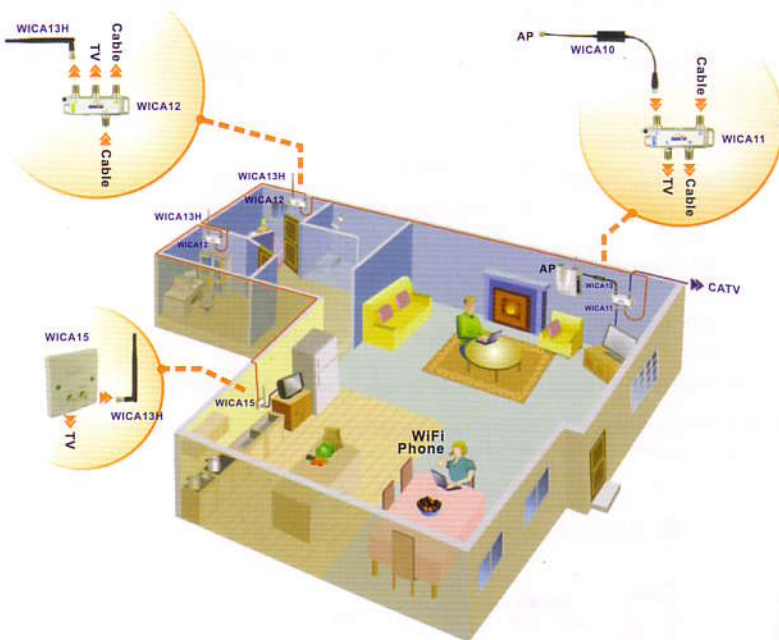


Patent Pending

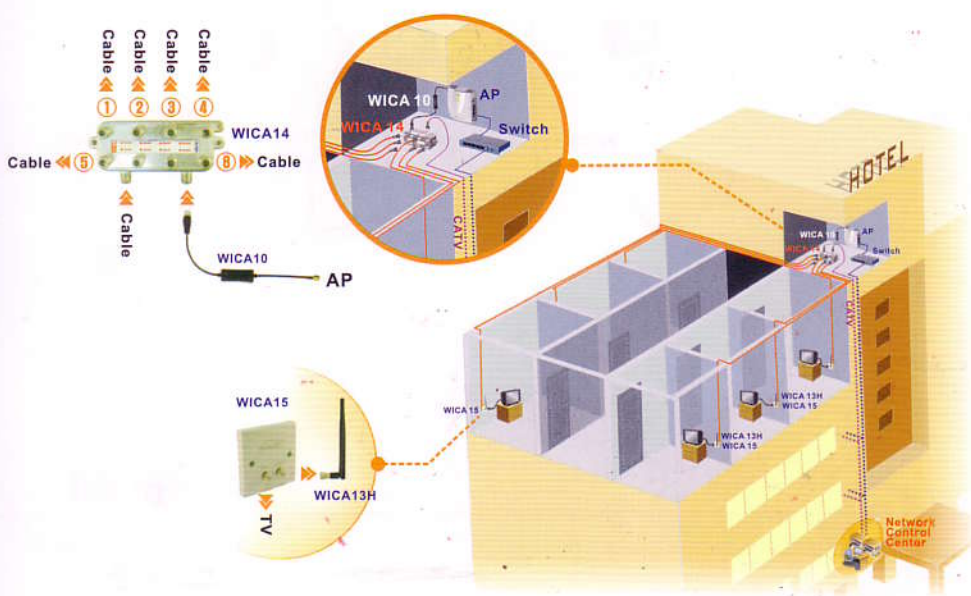
WICA Series

WiFi over CATV

The WICA series is a WiFi over CATV relay network solution. By taking the advantage of the existing CATV network in the buildings, WICA can provide a high performance and dead-spot free wireless environment. WICA series also enable an easy and flexible deployment in different CATV network structures found in houses, apartments and hotels. Using WICA, the AP signal can be integrated into CATV along with the TV signal without interference to each other. WiFi signal can be extended into each room and form a dead-spot free environment.



Scenario 1, WICA Series can be used as a chained linear network from room to room through CATV and WICA splitters.



Scenario 2, WICA series can be used to chained the network as Star topology by WICA 14 (8port splitter), to provide multiple areas with broadband wireless connection.

Specifications

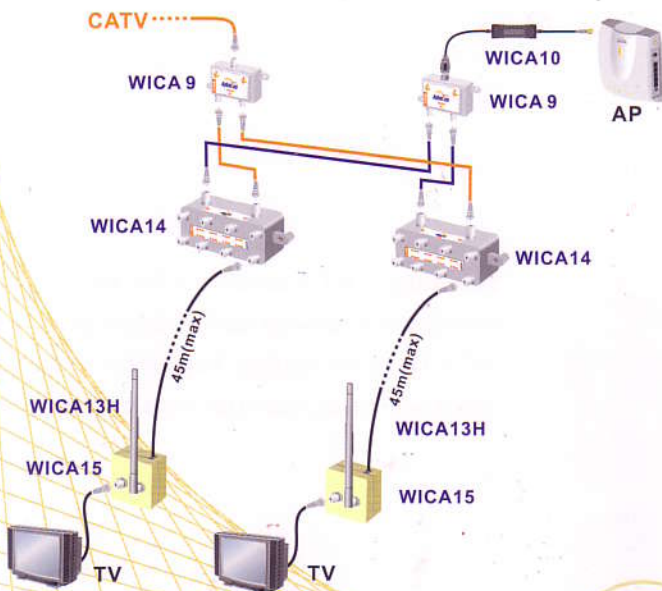
Part Name	Items	Frequency Range	Connector Port	Insertion Loss dB		
WICA 9	1 Input--2 Output Full Band Splitter	5MHz~2.6GHz	1*F-type Female	WiFi Signal Input or CATV Signal Input	6	
			2*F-type Female	WiFi Signal Output or CATV Signal Output		
WICA 10	Impedance Converter	5MHz~2.6GHz	1*SMA Female	WiFi Signal Input	1.5	
			1*F-type male	WiFi Signal Output		
WICA 11	2 Input--2 Output	1.5GHz~2.6GHz	2*F-type Female	<ul style="list-style-type: none"> WiFi Signal Input CATV Signal Input 	5	
		5MHz~1GHz	2*F-type Female	<ul style="list-style-type: none"> WiFi+CATV Signals Combine to WICA 12 CATV Signal Output 		
WICA 12	1 Inputs--3 Output	5MHz~2.6GHz	1*F-type Female	WiFi+CATV Signals Combine Input	6	
		5MHz~2.6GHz	3*F-type Female	<ul style="list-style-type: none"> WiFi+CATV Signals Pass to next WICA12 WiFi Signal Output 	6	
		1.5GHz~2.6GHz		<ul style="list-style-type: none"> CATV Signal Output 	5.5	
WICA 13	WiFi 3.5dBi High Gain Antenna	2.4GHz~2.5GHz	1*F-type Male	WiFi Signal Transfer & Receive		
WICA 14	2 Input--8 Output	1.5GHz~2.6GHz	2*F-type Female	<ul style="list-style-type: none"> WiFi Signal Input CATV Signal Input 	13	
		5MHz~1GHz	8*F-type Female	WiFi+CATV Signals Combine then Output to WICA 15		15
WICA 15U (Wall-USA)	1 Input--2 Output High / Low Band Splitter	5MHz~2.6GHz		1*F-type Female	WiFi+CATV Signal Combine Input	
WICA 15E (Wall-EU/China)		1.5GHz~2.6GHz	2*F-type Female	WiFi Signal Output	2	
WICA 15T (Wall-Taiwan)		5MHz~1GHz		CATV Signal Output	2	
WICA 16	2 Input--6 Output	1.5GHz~2.6GHz	2*F-type Female	<ul style="list-style-type: none"> WiFi Signal Input CATV Signal Input 	11 *	
		5MHz~1GHz	6*F-type Female	WiFi+CATV Signals Combine then Output to WICA 15		12
		5MHz~2.6GHz		<ul style="list-style-type: none"> WiFi+CATV Signals Combine then Output to WICA 15 		

*Special Notice for WICA Series Installation : Any normal CATV cable splitter deployed in the system may block the WiFi signal. Strongly recommend to replace the original CATV splitter with WICA splitter.

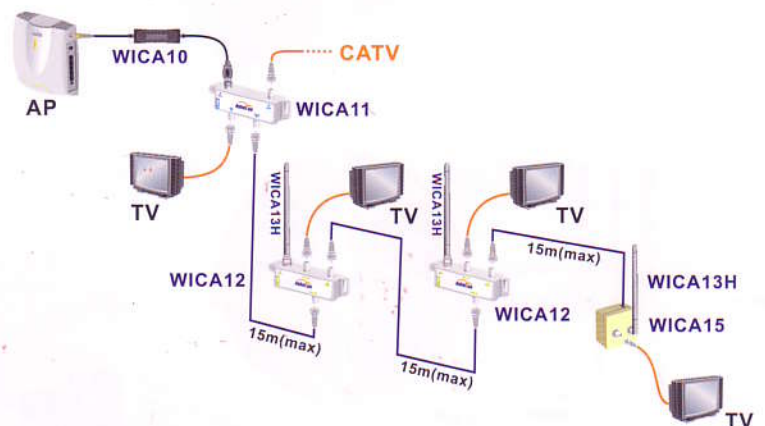
**The insertion loss needs to be kept at > -39dB for a satisfactory performance. 5C 75Ω coaxial cable loss at 2.4GHz is 0.6dB/m, this limits the cable length to < 45m.

***The maximum number of 6 WICA 12 in one line would be recommended. The unused port is suggested to have a splitter terminal.

■ Divergent Connecting Deployment



■ Chain Connecting Deployment



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