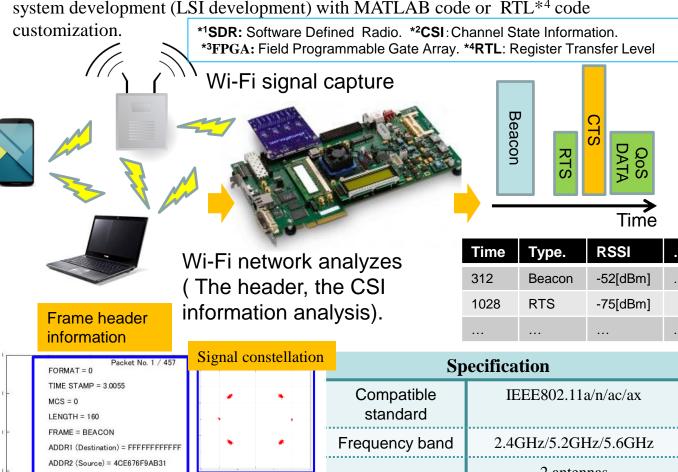
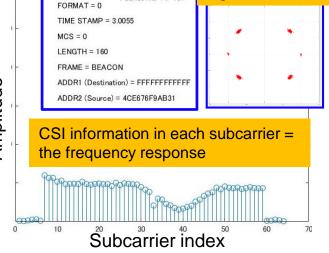
A Platform for Wi-Fi Analysis

- Software Defined Radio Platform -

- This product provides a way of analysis by using SDR*1 software platform. RADRIX It provides visible analysis method of transmission packets and transmission for feature Market Personal Parameteristic change on Wi-Fi network.
- This product provides either detailed offline analysis (constellation and the CSI*2 transmission channel characteristic, etc.), or real-time analysis upon the FPGA*3 hardware by using MATLAB software.
- It is available as a platform of the algorithm development and the wireless LAN system development (LSI development) with MATLAB code or RTL*4 code





Radrix Co.Ltd

www.radrix.com

c/o Incubation Facility Kyushu Institute of Technology 680-4, Kawazu, Iizuka,Fukuoka,Japan.820-8502

TEL: 0948-29-7937 FAX: 0948-29-7692

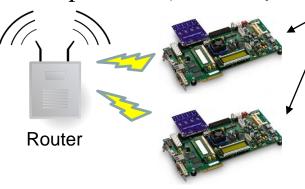
Specification						
Compatible standard	IEEE802.11a/n/ac/ax					
Frequency band	2.4GHz/5.2GHz/5.6GHz					
MIMO	2 antennas (4 antennas by option)					
Bandwidth	20, 40, 80 [MHz]					
Analysis result	Header information, RSSI, CSI, Constellation, etc					
Applications	Wi-Fi network analysis Wi-Fi sensing (option) time synchronousness,positioning,					

Contact about this product email: support@radrix.com

Wi-Fi Analysis Applications and Examples



Experiment(Ex: Time synchronization using Wi-Fi)

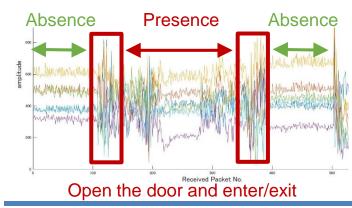


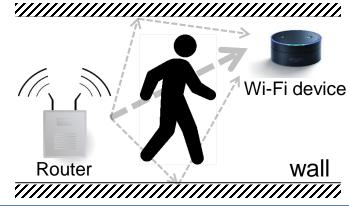
beacon which is regularly sent from the

In the experiment example, it implements the time synchronization of the sub microsecond among the terminals using the TSF information which is contained in the beacon and the reception time stamp information of the SDR*1 board.

Possible to support a wide range of experiments by using FPGA*2 and MATLAB.

Wi-Fi sensing (Ex: The person detection system which used CSI*3)



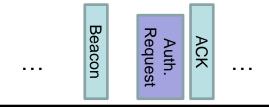


Wi-Fi network analysis



Time

Traffic analysis on Wi-Fi network



SA

Header analysis, EVM*4 evaluation. CSI analysis, etc.

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312	Beacon	-52[dBm]	FFFF
1028	RTS	-75[dBm]	XXXX
1188	CTS	-51[dBm]	YYYY

Type.

Signal constellation

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XIt isn't possible to do the analysis of the encrypted data part.

RSSI

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TEL: 0948-29-7937 *3 CSI: Channel State Information. *4EVM: Error Vector Magnitude. FAX: 0948-29-7692

*1SDR: Software Defined Radio. *2FPGA: Field Programmable Gate Array.

DA