

Eve Systems LLC
100 Pine St., Suite 1250,
San Francisco CA 94111, USA

Eve Systems GmbH
Rotkreuzplatz 1 80634
München Germany

Theory of Operation/Technical Description – FCC ID: SNE-IDC-001, IC: 11192A-IDC001, RED RT 60149783 0001, Product name: Eve Cam, Model name: 20EBK9901.

- RF circuit function:

The product are based on the CYW43455 modules

The major part of this IC is a Wi-Fi 2.4GHz with Wi-Fi 5GHz, Bluetooth compliant transceiver. The Bluetooth function of this product will be turned off using software. Will not be used by the final consumer.

- Description of all modulation schemes used in the product:

WiFi 2.4GHz for FCC

Technical Specification	Value
Operating Frequencies	802.11b/g/n20 : 2412MHz ~ 2462MHz
Channel Spacing	5 MHz
Channel number	11
Operation Voltage	5Vdc
Modulation	802.11b : DSSS(BPSK, QPSK, CCK) 802.11g/n : OFDM(BPSK, QPSK, 16QAM, 64QAM)
Antenna gain	1.9 dBi
Beamforming Mode	No support
Product Type	802.11b: WLAN (TX, RX) 802.11g: WLAN (TX, RX) 802.11n: WLAN (TX, RX)

WiFi 5GHz for FCC / IC

Technical Specification	Value
Operating Frequencies	Band 1: 5180~5240MHz Band 2: 5260~5320MHz Band 3: 5500~5700MHz Band 4: 5745~5825MHz
Channel Spacing	10 MHz
Channel number	24 for 20MHz bandwidth ; 11 for 40MHz bandwidth ; 5 for 80MHz bandwidth ;
Operation Voltage	5Vdc
Modulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM,
Antenna gain	4.4 dBi
Product Type	802.11a: WLAN (TX, RX) 802.11n: WLAN (TX, RX) 802.11ac: WLAN (TX, RX)
Beamforming Mode	No support
Operation Mode	Client device without DFS detection

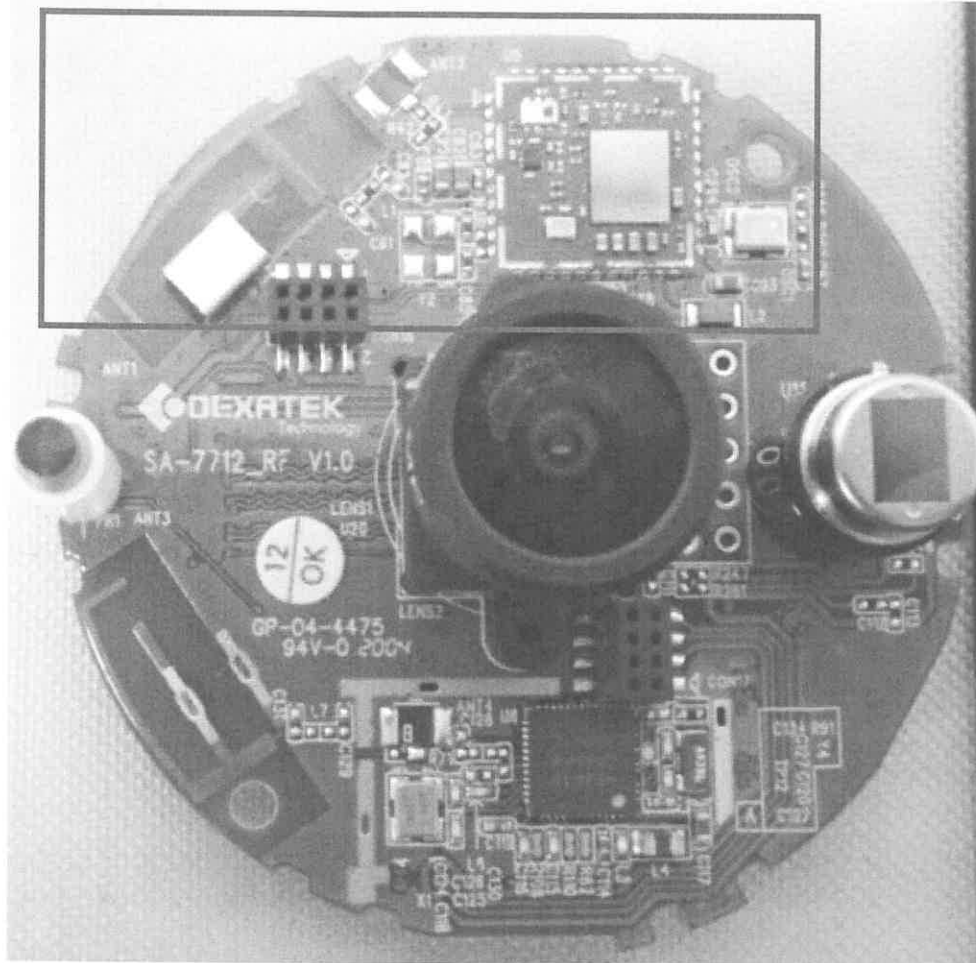
WiFi 2.4GHz for CE

Technical Specification	Value
Kind of Equipment	Eva Cam
Type Designation	20EBK9901
Operating Frequencies	2412~2472 MHz
Channel Spacing	5 MHz
Channel number	802.11b/g/n: 13 (2412 MHz ~ 2472 MHz)
Extreme Temperature Range	0 ~ 40 °C
Operation Voltage	5Vdc
Modulation	802.11b: DSSS 802.11g/n: OFDM with BPSK, QPSK, QAM
Antenna Type	PIFA antenna
Antenna gain	1.9dBi
Product Type	802.11b: WLAN(1TX, 1RX) 802.11g: WLAN(1TX, 1RX) 802.11n: WLAN(1TX, 1RX)

WiFi 5GHz for CE

Technical Specification	Value
Kind of Equipment	Eva Cam
Operating Frequency	Band 1: 5180~5240MHz Band 2: 5260~5320MHz Band 3: 5500~5700MHz
Channel Spacing	10MHz
Channel number	20M: 19 40M: 9 80M: 4
Extreme Temperature Range	0 ~ 40°C
Operation Voltage	5Vdc
Modulation	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
Antenna gain	4.4 dBi
Antenna Type	PIFA antenna
Operating Mode	Slave without radar detection, with TPC function
Product Type	802.11a: WLAN (1TX, 1RX) 802.11n: WLAN (1TX, 1RX) 802.11ac: WLAN (1TX, 1RX)

Module photo:



Philipp Guse
Title: Senior Product Manager

Signature:

T. Guse