**Wi-Fi RECEIVER**

**YELLOWJACKET®-OEM** is an 802.11 Wi-Fi developer’s kit that includes a calibrated receiver and DLL. The calibrated receiver measures between 2.0 - 5.9 GHz covering such popular wireless bands including Wi-Fi, Wi-MAX, ISM, Public Safety, Bluetooth and more. **YELLOWJACKET®-OEM** sweeps and demodulates all 802.11b/a/n/g packets providing MAC, SSID, SNR, Delay Spread, CFR and more. Berkeley’s receiver technology measures RSSI to within ±1 dB of any nearby 802.11 packet on or off your network. **YELLOWJACKET®-OEM** module contains (1) Ethernet 10/100 Mbit port and (1) mini USB port for PC connectivity, (1) standard SMA female antenna connection, an internal 12-channel/satellite GPS receiver and necessary DLL software and documentation.

**DLL CODER’S KIT**

**YELLOWJACKET®-OEM** includes a DLL (Dynamic Link Libraries) to get any developer up and running with their own custom software development. The **YELLOWJACKET®-OEM** kit includes all the necessary components for creating customizable WLAN surveys, interference detection and packet traffic analysis.
DE MODULATOR SPECIFICATIONS

BANDS SUPPORTED 2.4-2.5 & 5.8 GHz (all 802.11b/a/g)
RF SENSITIVITY (Wide Band) -20 to -90 dBm
PACKET DEMODULATOR Multipath Measurement and Graphical Display
CORRELATED POWER MEASUREMENTS % Total Power
Total Channel Power Measurement - 20 dBm : -80 dBm

PACKET DEMODULATION
Channel Scan Mode Device MAC Address, SSID, RSSI, Channel Number, Encryption (On / Off), Data Rates, Modulation (DSSS / OFDM), Device Type (AP / NIC), Tx Packet Type & Device Packet Type Sent To / Received From.

SINGLE DEVICE SURVEY MODE
Packet Analysis Relative distribution of the different packets transmitted (broadcast/ unicast / multi cast) and data rates of transmitter packets
Traffic Analysis Relative distribution of various Tx / Rx packets (data, beacon, probe Rq. / Rsp., etc.)

MULTIPATH ANALYSIS Percentage of total correlated power

CHANNEL SCAN SETTINGS
User Selectable Select 14 channels in 2.4 GHz band (802.11b/g) and 27 channels in 5 GHz band (802.11a) with user selectable scan time settings per channel
Adaptive Scan Intelligent scanning technique allows the receiver to spend more time on channels with greater Wi-Fi activity. Channel scan time increments everytime activity has been detected on a channel up to a maximum value.

SPECTRUM ANALYZER SPECIFICATIONS

BANDS SUPPORTED 2.0 - 5.9 GHz (includes 802.11b, a, n, g, h)
AVERAGE NOISE FLOOR (NO INPUT) < -100 dBm (reference level -70 dBm, resolution bandwidth = 50 kHz)
DYNAMIC RANGE > 40 dB
LEVEL ACCURACY ± 1.5 dB (25º C)
MAX INPUT (SAFE) + 0 dB
MAX INPUT (NO SATURATION) - 20 dB
REFERENCE LEVEL -20 to -70 dBm (10 dB steps)
DISPLAY (Tablet UMPC) see Samsung Q1 specifications
OPERATING SYSTEM (Tablet UMPC) Windows® Tablet XP

TRIGGERING
PACKET/INTERFERENCE TRIGGER trigger analyzer when input power > threshold (20 MHz span)
TRIGGER THRESHOLD user settable in dBm (up to 20 dB below current reference power level)
TRIGGER DELAY user settable in mS

GENERAL SPECIFICATIONS
INTERNAL GPS RECEIVER 12-channel GPS receiver
INPUT CONNECTOR SMA Female, 50 Ohm
POWER Included AC to DC transformer

PHYSICAL SPECIFICATIONS
WEIGHT 2 lbs.
DIMENSIONS 3"H x 4"W x 8”L (water resistant, high impact ABS plastic case)