

YELLOWJACKET-TABLET

TABLET PC 802.11 PACKET/SPECTRUM ANALYZER

PACKET ANALYSIS

802.11b
802.11a
802.11n
802.11g

SPECTRUM ANALYSIS

2.0 - 5.9 GHz

SPECTRUM ANALYSIS

YELLOWJACKET®-TABLET is both a Windows XP® tablet UMPC spectrum analyzer and 802.11b/a/n/g packet demodulator. 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. Powerful spectrum analysis features include user selectable power triggers, 3 pairs of markers, video smoothing, waveform averaging, 1 live trace and up to 4 peak hold waveform traces with peak hold/search. This advanced spectrum analysis allows **YELLOWJACKET®-TABLET** to display areas of RF interference. The receiver is a passive device and "invisible" to the network making it easier to identify hackers, rogue APs and other sorts of RF interference. **YELLOWJACKET®-TABLET** interface offers a large 7" WVGA LCD touch-screen featuring 1.33 GHz Intel Pentium® processor.

PACKET ANALYSIS

YELLOWJACKET®-TABLET

DEMODULATES all 802.11b/a/n/g packets providing device MAC address, SSID, channel number, data rates, encryption, modulation scheme, device/packet type and more while **SINGLE DEVICE SURVEY MODE** supports full packet, traffic and multipath analysis. Once users have detected a specific AP or STA, they can "lock onto" those packets to locate it using an optional direction finding antenna. Unlike other packet sniffers and signal strength meters, receiver technology measures RSSI to within ± 1.0 dB of any nearby 802.11 packet on or off your network. This realtime measurement is useful in determining total channel power, multipath and WISP antenna alignments.

YELLOWJACKET-TABLET FEATURES:

RF SPECTRUM ANALYSIS IN YOUR HANDS OR ON YOUR DESKTOP

IDENTIFY WI-MAX, RFID, WI-FI, 802.11 & OTHER ISM INTERFERENCE IN SPECTRUM ANALYSIS MODE

CHANNEL POWER MEASUREMENTS IN TRUE dBm

LARGE, 7" WVGA, TOUCH-SCREEN INTERFACE

WINDOWS XP UMPC INTEL PENTIUM TABLET

USER SELECTABLE POWER TRIGGERS

PEAK SEARCH / HOLD WITH UP TO 4 PEAK HOLD WAVEFORM TRACES

WAVEFORM JPEG SNAPSHOTS (PREVIEW & PRINTOUT)

SUPPORTS OPTIONAL SWARM™ SITE SURVEY MAPPING SOFTWARE



Samsung's Q1 UMPC tablet serves as the touch-screen interface for the YellowJacket-TABLET receiver.

YELLOWJACKET-TABLET

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DEMODULATOR 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 (25° 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 \geq 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 (INTERNAL)	Lithium Polymer-Ion cells
RUNTIME INTERNAL BATTERY	> 3 hours
RECHARGE TIME	< 3 hours
EXTERNAL POWER SUPPLY	19V DC supply

PHYSICAL SPECIFICATIONS

WEIGHT	4.6 lbs.
DIMENSIONS	3"H x 4"W x 8"L (water resistant, high impact ABS plastic case)