

DG8SAQ VNWA 3 Vector Network Analyzer Announced

Introducing the New VNWA 3



SDR-kits VNWA 3 - shown with optional SOL Calibration Kit

The **New DG8SAQ VNWA 3 Vector Network Analyzer** replaces the popular DG8SAQ VNWA 2.6. Covering 1 kHz to 1.3 GHz and powered from a PC USB-bus, the VNWA3 offers a dynamic range of 90dB up to 500 MHz and better than 50dB above 500 MHz.

Supporting the same functionality as its predecessor, the VNWA 3 **offers:**

- All VNWA hardware on a single Printed Circuit board for maximum reliability
- High stability 12 MHz TCXO from which all clock signals are obtained.
- Redesigned Solid 2mm Anodized enclosure and brass chassis
- Option for fitting VNWA 3 Expansion board

The New VNWA 3 will be on show at the SDR-Kits Stand **A1-E600** at **Ham Radio in the**

Main Hall from 24th June - 26th June 2011 in **Friedrichshafen Messe Germany**

Ordering and Shipping:

It is expected that VNWA 3 will ship from 1st July 2011 onwards when the **new SDR-kit Website** will be operational. Optional Presentation case and the SDR-Kits VNWA calibration Kit should also be available from this date:

ORDERS will not be accepted prior to the Website going online

VNWA breakout board - Optional USB Codec and External connectivity

This Option, available by **Q4 2011** may be fitted retrospectively by VNWA users with some electronic assembly skills or by SDR-Kits and offers:

- Simultaneous S11 and S21 measurements in one sweep
- RJ11 socket to provide external VNWA control and VNWA power connectivity
- Reduced Power consumption - DDS switched mode supply

New - VNWA 3 Installer - VNWA 3 comes with a new VNWA Installer Package to get a new VNWA up and running with minimum of delay. The installer is downloaded from the SDR-Kits website to ensure the latest VNWA software and Helpfile are installed at all times. The installer supports Windows 7 & Vista (64 and 32 bit OS) as well as Windows XP, and older Windows Operating Systems.

DG8SAQ VNWA 3 Specification

- Coverage from **1 kHz to 1300 MHz**: Up to 500 MHz with dynamic range of up to 90dB Useful performance up to 1.3 GHz with reduced dynamic range and accuracy.
- **S-Parameter** S11, S12, S21 & S22, VSWR, Smith Chart
- Component Measurements Resistance, Admittance Capacitance, Inductance & Quality Factor (Q)
- Time domain & Gating in Time domain - **Distance to Fault (DTF) measurement**.
- Import and Export of **Touchstone files** (S1P - S2P - S3P)
- Logarithmic and Listed sweep: up to **8192 points** with sampling time adjustable from 0.2mS to 100mS
- **Network Matching Tool**, Complex Calculator & Crystal Parameter tool
- User defined S-parameter calculator - **Zplot** & Excel application Support
- Basic **Spectrum Analyzer** - useful up to 100 MHz
- Basic Signal Generator - max RF Output as signal generator -17dBm - no harmonic filtering
- Power requirement - USB 1.1 or USB 2 Interface 5V DC max 400mA
- 12 MHz **TCXO** Master Clock - stability of 2 ppm
- Microprocessor: Atmel **ATMega 328P** with - 16K Flash memory - clocked at 16 MHz
- Connectors: SMA x 2, Mini USB-B
- Power requirement - USB 1.1 or USB 2 Interface 5V DC max 400mA
- Dimensions: Width 10.4 cm, Depth 8.0 cm, Height 4.6 cm, Weight 0.35 Kg
- **CE and RoHS** Compliant
- Provision for Optional **VNWA 3 Breakout board** (expected available during Q4 2011)

VNWA 3 in the box:

- VNWA 3 - assembled and tested
- Mini-USB lead
- VNWA 3 "Getting Started Manual"

VNWA 3 Options

- Presentation case
- Calibration set (SMA Short - SMA 50 Ohm Load)
- Adapters - SMA to SMA cables
- VNWA Breakout Board (available Q4 2011)

Try out VNWA software the helpfile before you buy!!!

Customer satisfaction has been a big priority for us since VNWA was first launched in 2008!! We like VNWA buyers to try out the DG8SAQ VNWA Software and browse the VNWA Helpfile first before ordering. Every effort is made to make the VNWA easy and intuitive to use for new owners, but be prepared to "invest some time" to get familiar with the many uses and options of the VNWA 3!!

Take a look at the latest 300 page VNWA helpfile from http://sdr-kits.net/DG8SAQ/VNWA/VNWA_HELP.pdf

Ongoing support of all our VNWA Customers

VNWA Software 3.5 updated for VNWA 3 was released on 15th June 2011 to existing VNWA 2.x Customers offering the same new VNWA software features which VNWA 3 Customers will receive when VNWA 3 ships in July 2011.

A PDF version of the latest VNWA Helpfile can be downloaded here:

http://sdr-kits.net/DG8SAQ/VNWA/VNWA_HELP.pdf

VNWA 3 Pricing information:

The basic price of the VNWA 3 including USB cable but excluding shipping will be same as VNWA 2.x however due to a 15% increase in shipping costs from the UK since 1st January 1st 2011 there is a small increase in the overall cost:

- UK Customers incl 20% VAT and Special Delivery £ 409.20
- EU Customers incl 20% VAT and Tracked Priority Airmail £ 418.00 (480 Euro)
- Export Customers - no TAX with Tracked Priority Airmail £ 350.00 (US\$580)

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Contact

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