

OneExpert ONX-580

For xDSL, G.fast and FTTH

Fast, consistent, and complete!

Consistently achieve high-performance results when deploying ultra-fast residential broadband over xDSL, G.fast, and FTTH.

OneExpert™ helps field technicians fix problems right the first time, every time. A multitouch, user-friendly interface and OneCheck™ automated tests ease complex tasks with clear pass/fail results. And, its future-proof modules ensure years of use supporting access and home networks.

Open, Modular Design

OneExpert offers the advantages of integrated cloud-based applications, touch screen interfaces, smartphones, and tablets. OneExpert helps technicians perform more efficiently and fix problems faster while ensuring service providers can invest in a long-term, open platform. Modular hardware means the meter can be updated as technology is updated. Software can be upgraded and enhanced in the field, so no down-time for these changes.

Key Benefits and Features

- Modular platform scales for new WiFi, fiber, and xDSL technology including VDSL Profile 35b and G.fast
- OneCheck automates field tests and simplifies Copper and DSL results to consistently close jobs correctly
- One button OneCheck TDR auto identifies fault types and locations right away
- Prove the true customer experience with a standardized TrueSpeed™ test (RFC-6349)
- OneExpert™ app uses everyday mobile devices for remote control, data enhancements, and connectivity
- StrataSync™ cloud-enabled asset and test data management provides visibility for test results and completed tasks and keeps track of used instrument inventory

Large screen, simplifies results analysis

Multitouch user interface for quick testing

StrataSync – cloud-based asset and data management

Bluetooth/WiFi ready connectivity



xDSL Testing up to G.fast

A sync test is essential in characterizing DSL link quality (bandwidth rates, margins, errors, and likelihood for errors). This test also helps determine whether issues are coming from the equipment (CPE or DSLAM/DPU ports) or from the profile settings. It shows important results on a single DSL summary screen page. The test uncovers errors (CRC, FEC, LOS, LOF, and LOM) that impact application layers such as IP video.

| Module | ONX-BDCM-DSL-ANXAB xDSL Annex B | ONX580-BDCM-DSL-BONDED xDSL Annex A Bonded | ONX-BDCM-GFAST Broadcom V35b/G.fast 106 | ONX-TM-SCKP-212 BDCM/V35b/G.fast 212 |
|---------------------------------|---------------------------------|--|---|--------------------------------------|
| ADSL | ■ | ■ | ■ | ■ |
| ADSL/VDSL Anx A/M/L (to 30a) | ■ | ■ | ■ | ■ |
| ADSL/VDSL Anx B/J (to 30a) | ■ | — | ■ ¹ | ■ ¹ |
| ADSL2 Bonded Anx A/M/L | — | ■ | ■ | ■ |
| VDSL2 Bonded Anx A/M/L (to 17a) | — | ■ | ■ | ■ |
| V35b | — | — | ■ | ■ |
| V35b Bonded | — | — | — | ■ |
| BDCM G.fast 106MHz | — | — | ■ | ■ |
| BDCM G.fast 212MHz | — | — | — | ■ |
| BDCM 106MHz Bonded | — | — | — | ■ |

¹Annex B/J Compatible

Specifications

| | |
|--|--|
| Power Supply | |
| Battery | Li-ion internal rechargeable, 7.4 V nominal voltage, 6600 mAh |
| Operating time >4 hours for typical use cases | |
| Auto power down (adjustable) | |
| AC line operation via external adapter/car charger | |
| Connector | |
| DSL test module | Varies by module (8 Pin Modular and 6 Pin Modular) |
| Ethernet | 2 x 8-pin modular (RJ45) |
| T/A, R/B, T1/A1, R1/B1 and ground/Earth | 2 mm recessed banana |
| POTS | 8-pin modular (RJ45) and tip A – ring B |
| USB | 2 x USB 2.0 client ports |
| Connectivity | |
| USB flash drive | |
| Remote operation | |
| Mobile device application | |
| Bluetooth | |
| Standard | Bluetooth 2.1 + EDR, Bluetooth 4.0 ready |
| WiFi | |
| Standard | 802.11 a/b/g/n (2.4/5 GHz) |
| Audio Support | |
| Speaker/microphone | |
| Bluetooth headset | |
| Permissible Ambient Temperature | |
| Nominal range of use | 0 to 50°C (32 to 122°F) |
| Storage and transport | -10 to 60°C (14 to 140°F) |
| Humidity | |
| Operating humidity | 10 to 90% |
| Water/Dust Ingress | |
| Complies with IP54 | Designed to comply with IP54 |
| Display | 127 mm (5 in) diagonal color WVGA (800 x 480 pixels) backlit LCD with projected capacitive multitouch screen |

Ordering Information

The OneExpert can be ordered fully configured for high-end ADSL2+ /VDSL2 /G.fast and copper test demands or scaled for specific needs and applications, such as all fiber only without copper.

Included Test Applications

(all mainframes and package orders except noted differently below)

Fiber Tests

- OneCheck Fiber
- Power meter (via Accessory)
- OTDR (via Accessory)
- Inspection (via Accessory)

Copper on mainframe ONX-580

- TDR
- OneCheck Copper
- DVOM
- Opens
- Longitudinal balance
- Load coil
- POTS TDR

Wiring Tools

- Wire map on mainframe ONX-580
- Hub flash
- Port discovery
- Ping tool

IP Data Tests

- Web browser
- IP ping
- FTP/HTTP speed test
- OneCheck Ethernet

WiFi

- Scan
- Access point
- WiFi Advisor support

StrataSync

- StrataSync Core Asset and Data Management

| Description | |
|---|------------------------|
| Mainframe | |
| OneExpert; ONX-580 Pro ¹ | ONX-580P |
| OneExpert; ONX-580 ¹ | ONX-580 |
| OneExpert; ONX-580A ¹ | ONX-580A |
| Module | |
| OneExpert Broadcom 63138 G.fast/V.35B test module | ONX-BDCM-GFAST |
| OneExpert Broadcom 63168 (bonded ready) test module | ONX580-BDCM-DSL-BONDED |
| OneExpert Broadcom 63168 (VDSL, ADSL2+ ANX A/B) test module | ONX-BDCM-DSL-ANXAB |
| OneExpert cover module | ONX-COVER |
| Software Options | |
| ADSL/VDSL bonding option for module ONX-BDCM-DSL-BONDED | ONX580-BONDED |
| Broadcom G.fast option | ONX580-GFAST |
| V.35b option | ONX580-V35B |
| G.fast Amendment 3 Option | ONX580-GFAST-212 |
| DSL Helper Utility | ONX580-DSL-HELPER |
| Mobile device connectivity | ONX580-MOBILE-001 |
| Bluetooth | ONX580-BLUETOOTH |
| HPNA | ONX580-HPNA |
| TrueSpeed | ONX-TRUESPEED |
| Ookla SpeedTest | ONX-OOKLA-SPEEDTEST |
| Broadcom Speedservice | ONX-SPEED-SERVICE |
| VIAMI Speedcheck | ONX-SPEEDCHECK |
| Smart Access Anywhere | ONX-SMART-ACCESS |
| IP video | ONX580-IPVIDEO |
| VoIP | ONX-VOIP |
| MOS ² | ONX-MOS |
| Resistive fault locator | ONX580-RFL |
| Transmission impairments and spectral ³ | ONX580-TIMS |
| Copper Expert software | ONX580-COPPER-EXPERT |
| Cables | |
| Dual Pair Bed of Nails Copper Cables | CB-DUAL-BON |
| Single Pair Bed of Nails Copper Cables | CB-SINGLE-BON |
| Dual Pair Telco Clips Copper Cables | CB-DUAL-TELCO |
| Single Pair Telco Clips Copper Cables | CB-SINGLE-TELCO |
| Dual Pair Banana Copper Cables | CB-DUAL-4MM |
| Single Pair Banana Copper Cables | CB-SINGLE-4MM |
| Telco clip package for 4 mm banana | CB-CLIPS |
| Spectral monitor cable | CB-SPE-MON |
| Dual Pair Bed of Nails 8 Pin to Banana Cables | CB-DSL8-4MM |
| Dual Pair Bed of Nails 8 Pin to Telco Clip Cables | CB-DSL8-TELCO |
| Dual Pair Bed of Nails 8 Pin to Bed of Nails Cables | CB-DSL8-BON |

| | |
|---|------------------------|
| Dual Pair Bed of Nails 6 Pin to Banana Cables | ONX-DSL6-4MM |
| Dual Pair Bed of Nails 6 Pin to Bed of Nails Cables | ONX-DSL6-BON |
| Accessories | |
| Battery | ONX580-BATTERY-48WH |
| AC universal power adapter | AC-CHARGER |
| Large carrying case | CC-034601 |
| Small carrying case | CC-CARRYING-CASE-SMALL |
| Soft glove | AC-GLOVE |
| Strand hook | AC-STRANDHOOK |
| Hand strap | AC-HANDSTRAP |
| Shoulder strap | AC-005101 |
| Car adapter | AC-CAR-CHARGER |
| Bluetooth headset | AC-BLUETOOTH-HEADSET |
| Wire mapping smart remote; RJ11, RJ45 | AC-WIREMAP-REMOTE |
| UFEDIIB bonded far end device with standard accessories | UFEDIIB-PKG-1 |
| SDI-100 WAND | SDI-100 |
| SmartOTDR SL – Wireless OTDR | ESL18FA65-APC |
| MP-60 – USB optical power meter | MP-60A |
| P5000i – USB fiber scope | FBP-P5000I |
| WiFi Advisor | |
| WiFi Advisor Basic Package | WFED300AC-1PC |
| WiFi Advisor Installer Package | WFED300AC-2PC |
| Services and Support Plans | |
| Bronze Support Plan 5 years | BRONZE-5 |
| Silver Support Plan 3 years | SILVER-3 |
| Silver Support Plan 5 years | SILVER-5 |

¹Includes test applications as specified above. Requires selection of battery, AC universal power adapter, and power cord.

²Requires VoIP software option.

³Enables copper RX tones, spectral, WB noise, wideband impulse noise, wideband impulse noise capture.

VIAMI Care Support Plans




Increase your productivity for up to 5 years with optional VIAMI Care Support Plans:

- Maximize your time with on-demand training, priority technical application support and rapid service.
- Maintain your equipment for peak performance at a low, predictable cost.

For more Information: go to viavisolutions.com/viavicareplan

Features

*5-year plans only

| Plan | Objective | Technical Assistance | Factory Repair | Priority Service | Self-paced Training | 5 Year Battery and Bag Coverage | Factory Calibration | Accessory Coverage | Express Loaner |
|---|------------------------------------|----------------------|----------------|------------------|---------------------|---------------------------------|---------------------|--------------------|----------------|
|  BronzeCare | Technician Efficiency | Premium | ✓ | ✓ | ✓ | | | | |
|  SilverCare | Maintenance & Measurement Accuracy | Premium | ✓ | ✓ | ✓ | ✓* | ✓ | | |
|  MaxCare | High Availability | Premium | ✓ | ✓ | ✓ | ✓* | ✓ | ✓ | ✓ |



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