

OneExpert DSL (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.

OneExpertTM helps field technicians fix problems right the first time, every time. A multitouch, user- friendly interface and OneCheckTM 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

Wireless personal area network//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-TM-BDCM Broadcom xDSL/ V35b	ONX-TM-BDCM-212 BDCM/V35b/G.fast 212
ADSL	•	•
ADSL/VDSL Anx A/M/L (to 30a)		
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	-	•

Specifications

DSL Modems

*Specifications apply to all modems listed unless a modem part is listed after the specification. When listed in the specification, it only applies to parts listed after the specification.

Test Interface

Replaceable test module; test access over copper test leads (tip A, ring B leads for single channel; T/A, R/B, T1/A1, R1/B1 for bonding) or 8-pin modular (RJ45 type) with pin assignments 4 and 5 for DSL single pair and 3, 4, 5, 6 for DSL bonding.

Modem Chipset and Version			
Catalog #	Chipset	Configuration	
ONX-TM-BDCM	Broadcom 63138	OneExpert Broadcom 63138 (ADSL/VDSL Bonded, V35B) Test Module	
ONX-TM-BDCM-212	Broadcom 63158	OneExpert Broadcom 63158 V35R GEAST 212) Test Module	
G.fast (Fast access to subscribe	er terminals) Standard Compliance		
ITU-T G.9700 to 106MHz for module ONX-TM-BDCM & to 212 MHz for ONX-TM-BDCM-212 ITU-T G.9701 to 106MHz for module ONX-TM-BDCM & to 212 MHz for ONX-TM-BDCM-212			
VDSL Standard Compliance			
Standard compliance as support	ted by the Broadcom 63158 and 631	38 chipsets	
ITU-T G.993.2 — VDSL2			
ITU-T-G.998.1 — ATM bonding			
ITU-T-G.998.2 — PTM bonding			
ITU-T-G.993.5 — Self-FEXT cancellation (vectoring)			
ITU-T-G.998.4 — Improved impulse noise protection for DSL transceivers			
Single-pair profiles: 8a/8b/8c/8d, 12a/12b, 17a, 30a			
Dual-pair profiles: 8a/8b/8c/8d, 12a/12b, 17a			
Vectoring profiles single-pair: 8a/8b/8c/8d, 12a/12b, 17a, 35b			
Vectoring profiles dual-pair: 8a/8b/8c/8d, 12a/12b, 17a			
Band plan 997 and 998, U0 band			
ITU G.993.2 Annex Y vector-friendly mode			
ADSL Standard Compliance			
Standard compliance as supported by the Broadcom 63138 and 63158 chipsets			
ITU-T G.992.1 Annex A, (ADSL)			
ITU-T G.992.3 Annex A, L (ADSL2)			
ITU-T G.992.5 Annex A, M (ADSI	.2+)		
ITU-T-G.998.1 ATM bonding			
	ITU-T-G.998.2 PTM bonding		
ANSI T1.413-1998, Issue 2			
ITU-T G.992.5 INP Amendment 3			

Copper Test - DVOM		
Test Interface		
Tip/A – ring/B – ground/earth		
Range	Resolution	Accuracy
AC Volts		
0 to 212 V RMS	0.1 to 1 V	1% ±5 V
DC Volts		
0 – 300 V	0.1 to 1 V	1% ±0.5 V
Resistance		
0 – 999 Ω	1 Ω 2%	±2.5 Ω
1 – 9.99 kΩ	10 Ω	2%
10 – 99.9 kΩ	100Ω	2%
100 – 999 kΩ	1 kΩ	2%
1.0 – 9.9 MΩ	10 kΩ	2%
10.0 – 99.9 ΜΩ	100 kΩ	2%
100 – 999 ΜΩ	1 ΜΩ	10%
Leakage		
100 – 999 MΩ	1 ΜΩ	10%
Distance to Short (conversion from resista	ance measurement depending on cable se	tup)
0 – 30 k ft (0 – 10 km)		
Capacitance/Opens (conversion from cap	acitance measurement depending on cable	e setup)
0 – 47.1 nF		1% ±15 pF
47.1 nf – 1.57 uF		
0 – 3 k ft (0 – 999 m)	1 ft (1 m)	2% ±15 pF
3 – 10 k ft (1 – 3.3 km)	10 ft (1m)	
10 –100 k ft (1 – 33.3 km)	100 ft (10m)	
DC Current		
0 – 110 mA	0.1	1% ±0.5 mA
Longitudinal Balance		
20 – 70 dB	1 dB	±2 dB
70 – 100 dB	1 dB	
Power Influence (PI) - Noise to Ground		
40 to 120 dBr n	0.1 dB	±2 dB
-50 to +30 dBm	0.1 dB	±2 dB
Metallic (Narrowband) Noise		
0 to 50 dBr n	0.1 dB	±2 dB
–90 dBm to –40 dBm	0.1 dB	±2 dB
Narrowband Filters		
IEEE 743 C-Message (dBr nC), IEEE 743 3K	Flat (dBr n), O.41 Psophometric (dBmP)	
Load Coil Test		
up to 5 ±1		
POTS		
Test Interface		
RJ11, tip A – ring B		
POTS Dialer		
DTMF or pulse-dial mode		
Ring detect		
Caller ID (Bellcore Telcordia TR-TSY-00003	0)	
Call log (last 10 calls)		
Phonebook (quick dial)		

Test Interface		
Tip A – ring B		
Range		
0 to 30 k ft (0 to 10 km)		
Test Modes		
Standard		
SmartGain		
In-home		
OneCheck		
CrossTalk (ONX 580P only)		
Dual Trace		
Features		
World view		
Peak hold		
QuickRange		
Reference trace set, show, save, load		
Stress TDR		
Typical Test Case		
500 ft (150 m) bridged tap visible at 18 k ft (55	500 m) on a 20 k ft (6000 m) 24 AWG cah	ole/0.5 mm cable
Copper TIMS Option	,	, 0.0 ca.s.c
Wideband Characteristics		
Range	Resolution	Accuracy
Frequency		,
10 kHz to 30 MHz		50 ppm
10 kHz to 35 MHz for ONX-580P		50ppm
TO KITE TO 33 INDETION ONA-3008		ј Зоррии
Amplitude		
	0.1 dB	±2 dB
Amplitude	0.1 dB 0.1 dB	
Amplitude -80 to +10 dBm		±2 dB
Amplitude -80 to +10 dBm -90 to +10 dBm for ONX-580P		±2 dB
Amplitude -80 to $+10$ dBm -90 to $+10$ dBm for ONX-580P Termination 100Ω , 120Ω , 135Ω		±2 dB
Amplitude -80 to $+10$ dBm -90 to $+10$ dBm for ONX-580P Termination 100Ω , 120Ω , 135Ω Narrowband (VF) Characteristics		±2 dB
Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-}580P$ Termination 100Ω , 120Ω , 135Ω Narrowband (VF) Characteristics Frequency		±2 dB ±1 dB
Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 100Ω , 120Ω , 135Ω Narrowband (VF) Characteristics Frequency $200 \text{ Hz to } 10 \text{ kHz}$		±2 dB ±1 dB
Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 100Ω , 120Ω , 135Ω Narrowband (VF) Characteristics Frequency $200 \text{ Hz to } 10 \text{ kHz}$ $200 \text{ Hz to } 20 \text{ kHz for ONX-580P}$		±2 dB ±1 dB
Amplitude -80 to $+10$ dBm -90 to $+10$ dBm for ONX-580P Termination 100Ω , 120Ω , 135Ω Narrowband (VF) Characteristics Frequency 200 Hz to 10 kHz 200 Hz to 20 kHz for ONX-580P Amplitude	0.1 dB	±2 dB ±1 dB 50 ppm 50 ppm
Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 100Ω , 120Ω , 135Ω Narrowband (VF) Characteristics Frequency $200 \text{ Hz to } 10 \text{ kHz}$ $200 \text{ Hz to } 20 \text{ kHz for ONX-580P}$ Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 600Ω , 900Ω , Bridged	0.1 dB	±2 dB ±1 dB 50 ppm 50 ppm ±0.5 dB
Amplitude -80 to +10 dBm -90 to +10 dBm for ONX-580P Termination 100 Ω, 120 Ω, 135 Ω Narrowband (VF) Characteristics Frequency 200 Hz to 10 kHz 200 Hz to 20 kHz for ONX-580P Amplitude -80 to +10 dBm -90 to +10 dBm for ONX-580P	0.1 dB	±2 dB ±1 dB 50 ppm 50 ppm ±0.5 dB
Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 100Ω , 120Ω , 135Ω Narrowband (VF) Characteristics Frequency $200 \text{ Hz to } 10 \text{ kHz}$ $200 \text{ Hz to } 20 \text{ kHz for ONX-580P}$ Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 600Ω , 900Ω , Bridged	0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB	±2 dB ±1 dB 50 ppm 50 ppm ±0.5 dB ±0.75 dB EL 35 MHz (580P only), VDSL 12, J-25K17, J-138K17, E-filter,
Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 100Ω , 120Ω , 135Ω Narrowband (VF) Characteristics Frequency $200 \text{ Hz to } 10 \text{ kHz}$ $200 \text{ Hz to } 20 \text{ kHz for ONX-580P}$ Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 600Ω , 900Ω , Bridged Technology Filter Selection Custom, ADSL, ADSL2+, VDSL 8 MHz, VDSL 12 Upstream U0, Voice Frequency, HDSL, G-filter, G	0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB	±2 dB ±1 dB 50 ppm 50 ppm ±0.5 dB ±0.75 dB EL 35 MHz (580P only), VDSL 12, J-25K17, J-138K17, E-filter,
Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 100Ω , 120Ω , 135Ω Narrowband (VF) Characteristics Frequency $200 \text{ Hz to } 10 \text{ kHz}$ $200 \text{ Hz to } 20 \text{ kHz for ONX-580P}$ Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 600Ω , 900Ω , Bridged Technology Filter Selection Custom, ADSL, ADSL2+, VDSL 8 MHz, VDSL 12 Upstream U0, Voice Frequency, HDSL, G-filter, G-filter, E1, IEEE-743 C-message, IEEE-743 3K FL	0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB	±2 dB ±1 dB 50 ppm 50 ppm ±0.5 dB ±0.75 dB EL 35 MHz (580P only), VDSL 12, J-25K17, J-138K17, E-filter,
Amplitude -80 to +10 dBm -90 to +10 dBm for ONX-580P Termination 100 Ω, 120 Ω, 135 Ω Narrowband (VF) Characteristics Frequency 200 Hz to 10 kHz 200 Hz to 20 kHz for ONX-580P Amplitude -80 to +10 dBm -90 to +10 dBm for ONX-580P Termination 600 Ω, 900 Ω, Bridged Technology Filter Selection Custom, ADSL, ADSL2+, VDSL 8 MHz, VDSL 12 Upstream U0, Voice Frequency, HDSL, G-filter, GF-filter, E1, IEEE-743 C-message, IEEE-743 3K Fl. Spectral Test	0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB	±2 dB ±1 dB 50 ppm 50 ppm ±0.5 dB ±0.75 dB EL 35 MHz (580P only), VDSL 12, J-25K17, J-138K17, E-filter,
Amplitude -80 to +10 dBm -90 to +10 dBm for ONX-580P Termination 100 Ω, 120 Ω, 135 Ω Narrowband (VF) Characteristics Frequency 200 Hz to 10 kHz 200 Hz to 20 kHz for ONX-580P Amplitude -80 to +10 dBm -90 to +10 dBm for ONX-580P Termination 600 Ω, 900 Ω, Bridged Technology Filter Selection Custom, ADSL, ADSL2+, VDSL 8 MHz, VDSL 12 Upstream U0, Voice Frequency, HDSL, G-filter, GF-filter, E1, IEEE-743 C-message, IEEE-743 3K Florestal Test Technology filter selection	0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB	±2 dB ±1 dB 50 ppm 50 ppm ±0.5 dB ±0.75 dB EL 35 MHz (580P only), VDSL 12, J-25K17, J-138K17, E-filter,
Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 100Ω , 120Ω , 135Ω Narrowband (VF) Characteristics Frequency $200 \text{ Hz to } 10 \text{ kHz}$ $200 \text{ Hz to } 20 \text{ kHz for ONX-580P}$ Amplitude $-80 \text{ to } +10 \text{ dBm}$ $-90 \text{ to } +10 \text{ dBm for ONX-580P}$ Termination 600Ω , 900Ω , Bridged Technology Filter Selection Custom, ADSL, ADSL2+, VDSL 8 MHz, VDSL 12 Upstream U0, Voice Frequency, HDSL, G-filter, G-filter, E1, IEEE-743 C-message, IEEE-743 3K Fl. Spectral Test Technology filter selection Spectral Power Influence test	0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB	±2 dB ±1 dB 50 ppm 50 ppm ±0.5 dB ±0.75 dB EL 35 MHz (580P only), VDSL 12, J-25K17, J-138K17, E-filter,
Amplitude -80 to +10 dBm -90 to +10 dBm for ONX-580P Termination 100 Ω, 120 Ω, 135 Ω Narrowband (VF) Characteristics Frequency 200 Hz to 10 kHz 200 Hz to 20 kHz for ONX-580P Amplitude -80 to +10 dBm -90 to +10 dBm for ONX-580P Termination 600 Ω, 900 Ω, Bridged Technology Filter Selection Custom, ADSL, ADSL2+, VDSL 8 MHz, VDSL 12 Upstream U0, Voice Frequency, HDSL, G-filter, GF-filter, E1, IEEE-743 C-message, IEEE-743 3K Fl. Spectral Test Technology filter selection Spectral Power Influence test Set reference, show reference	0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB 0.1 dB	±2 dB ±1 dB 50 ppm 50 ppm ±0.5 dB ±0.75 dB EL 35 MHz (580P only), VDSL 12, J-25K17, J-138K17, E-filter,

Span Selection				
	Range	Resolution	Accuracy	
Narrowband Frequency Range - ONX 580				
Power Harmonics	0 Hz to 3.0 kHz	2.0 Hz	50 ppm	
POTS	0 Hz to 10 kHz	5.0 Hz	50 ppm	
Narrowband Frequency Rar	nge - ONX580P		·	
Power Harmonics	0 Hz to 9.8 kHz 2 Hz	2 Hz	50 ppm	
POTS	0 Hz to 20 kHz	5 Hz	50 ppm	
Wideband Frequency Range				
ADSL	20.48 kHz to 1.5 MHz	1.078 kHz	50 ppm	
ADSL2+	20.48 kHz to 2.2 MHz	1.078 KHz	50 ppm	
VDSL 8 MHZ	17.25 kHz to 8.9 MHz	4.3125 KHz	50 ppm	
VDSL 12 MHZ	17.25 kHz to 12.9 MHz	4.3125 KHz	50 ppm	
VDSL 17 MHZ	17.25 kHz to 17.9 MHz	8.625 KHz	50 ppm	
VDSL 30 MHZ	17.25 kHz to 30 MHz	8.625 KHz	50 ppm	
VDSL 35 MHZ	17.25 kHz to 35 MHz	8.625 kHz	50 ppm	
Custom range selection				
Amplitude				
ONX-580	-80 dBm to 0 dBm	0.1 dB	±2 dB	
ONX-580	-130 dBm/Hz to -40 dBm/Hz	0.1 dB	±2 dB	
ONX-580P	-90 dBm to 0 dBm	0.1 dB	±2 dB	
ONX-580P	-140 dBm/Hz to -35 dBm/Hz	0.1 dB	±2 dB	
Viewable range				
	-90 dBm to 0 dBm for ONX-580P	0.1 dB	±2 dB	
	-140 dBm/Hz to -35 dBm/Hz for ONX-580P	0.1 dB	±2 dB	
	130 dBm to 30 dBm			
−160 dBm/Hz to −20 dBm/Hz				
Narrowband and Wideband	RX Tones and Loss			
Meter and list view				
Configurable External Bridge				
Power level dBm, dBr n				
Narrowband and Wideband	d Noise			
echnology filter selection				
Configurable external bridge				
Custom filter				
Noise power actual/min/max		dBm, dBr n		

Wideband Impulse Noise			
Technology filter selection			
Elapsed Time counter			
Threshold, +3 dB threshold, -3 dB threshold			
Configurable external bridge			
Configurable dead time			
Timeline view	dBm, dBr n, mV		
Counter view	dBm, dBr n, mV		
Wideband Impulse Noise Capture			
Technology filter selection			
Single and continuous capture			
Trigger threshold			
Time and frequency domain capture	frequency domain capture dBm, dBr n		
Capture display	10%, 50%, 90%		
RFL Test Option			
Resistive Fault Locator			
Single Pair RFL test mode			
Separate Pair RFL test mode 580P only			
Multiple gauge selection			
Temperature adjustment			
UFED support			
Results for distance to strap (DTS), distance to fault (DTF), distance to fault (RTF), fault resistance	nce strap to fault (DSTF), resistance	e to strap (RTS),	
	Range	Accuracy	
Fault resistance (RF)	0 to 20 MΩ		
Loop resistance	0 to 7 kΩ		
Resistance to Fault (RTF)	RTS 1 Ω to 99 Ω	0.1% RTS ±0.1Ω ±RF/10MΩ	
	RTS 100 Ω to 999 Ω	0.2% RTS ±0.1Ω ±RF/5MΩ	
K-Test	·	*	
Two-sided fault test			
Results include fault resistance 1, fault resistance 2			
UFED support			
	Range	Accuracy	
Fault resistance (RF)	0 to 20 MΩ		
Loop resistance	0 to 7 kΩ		
Resistance to fault (RTF)		3% of Resistance to strap (RTS) or +/- 3 ohms, whichever is greater	

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	
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

Ordering Information (continued)

Description	Catalog Number
Mainframe	
OneExpert; ONX-580 Pro ¹	ONX-580P
OneExpert; ONX-580¹	ONX-580
OneExpert; ONX-580A ¹	ONX-580A
Module	
OneExpert Broadcom 63138 (ADSL/VDSL Bonded, V35B) Test Module	ONX-TM-BDCM
OneExpert Broadcom 63158 V35B, GFAST 212 test module	ONX-TM-BDCM-212
OneExpert cover module	ONX-COVER
Software Options	
ADSL/VDSL bonding option	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
HPNA	ONX580-HPNA
TrueSpeed	ONX-TRUESPEED
Ookla SpeedTest	ONX-OOKLA-SPEEDTEST
Broadcom Speedservice	ONX-SPEED-SERVICE
VIAVI 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-EXPER
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

Ordering Information (continued)

Description	Catalog Number
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
MP-60 – USB optical power meter	MP-60A
P5000i – USB fiber scope	FBP-P5000I
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.



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