

# Test & Measurement Rental Catalogue

## Optical & Datacomms

## WELCOME

Dear Customer,

Welcome to Livingston's Optical & Datacomms Test Equipment Catalogue. This catalogue is intended as a quick reference guide to a wide range of products available for rental within these technology sectors. If you cannot find what you are looking for, please give us a call and we will be happy to try and source this for you. And if you are not sure which equipment you need, our applications engineers will discuss your application to identify the most suitable product.

All prices quoted in this catalogue are for guidance only and are correct at the time of printing.

Livingston is Europe's leading rental company with over 40 years of experience and expertise in the field of test & measurement solutions. We trust that you will find this catalogue useful and we look forward to hearing from you in the future.

Masten Evans  
Director & General Manager, Livingston UK Ltd

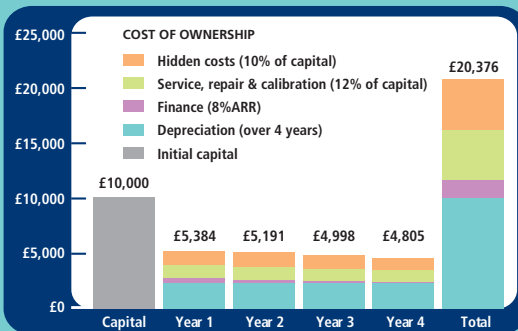
## SHOULD I RENT OR BUY MY TEST EQUIPMENT?

**Research shows that over 50% of purchased equipment is either infrequently or never used after the initial reason for purchase.**

You can decide if it is better to rent or buy by asking yourself two key questions:

- How long do I **really** need the equipment for?
- How much will it cost me to own it?

### COST OF OWNERSHIP v RENTAL COSTS



Real cost of ownership for a £10,000 item is **£20,400** or £98 per week for 4 years and below is the rental cost for exactly the same equipment.

No of months	Rental per week	Total Cost
6	£151	<b>£3,926</b>
12	£110	<b>£5,700</b>
24	£110	<b>£11,400</b>

So, if you know you will need the equipment for more than 2-3 years without upgrading it in that time, purchase is the right decision. But if there is any uncertainty or risk (financial or obsolescence), rental costs you less and gives you greater flexibility and control.

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## NEW PRODUCTS

Livingston recognizes the need to make significant, regular investment in the latest technology. That is why we typically invest £20,000,000 per annum on T&M equipment - through us you always have access to the newest and best equipment on the market. This page shows some of our recent investments, all of which are available to rent today.



### Exfo CD/PMD Analyser

- Wavelength Range 1200 to 1700 nm
- Dynamic Range 42 dB
- Dispersion Source 1550 and 1625 nm Super LED
- Requires FTB-400 Mainframe

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### Fujikura FSM-60 Multi Mode and Single Mode

- Suitable for use with SM (ITU-T G.652)
- Supplied with CT-30A Precision Cleaver & Stripper
- Arc Calibration-free system

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### Spirent Test Centre

- 144 Dual Media Gigabit ports or 24-10Gig Ethernet ports
- High Density 10/100/1000 Ethernet
- Highly Portable, Easy to Use

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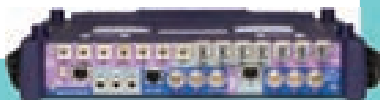
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### JDSU C8542 10 Gigabit LAN/WAN Module

- 10 GigE Module for use with the MTS8000 Mainframe
- Singlemode 1310nm FC Optical Interface

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### ExfoAXS-850 Ethernet Test Set

- Bit-error-rate testing (BERT) up to layer 4
- Cable testing
- Intelligent network autodiscovery for simplified loopback testing

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## OTHER SERVICES



### NOT JUST RENTAL...

In addition to rental, here are some of the other services available from Livingston.

#### Easy2Source

An innovative alternative to purchase. Initial contracts for 6 or 12 months with the option then to either extend to 12 or 18 months at preferential rates, or to convert to a purchase (with rebates). Alternatively, the contract can be extended on a monthly basis or you can simply return the equipment. The key benefit of Easy2Source is flexibility: it passes the equipment risks to Livingston, it is off the balance sheet, avoids CapEx approvals and is cost effective. Make your decision to own at the time that is most appropriate to your business. Includes service, calibration and maintenance.

#### Rent to Buy

Key features of this finance package are that the cost is spread over 6 to 36 months (non-cancellable) with simple documentation and a nominal purchase option. Tax allowances may be available. Key benefits to this are improved cash flow and liquidity, fixed payments ensure easy budgeting and it preserves existing lines of credit. Excludes service, calibration and maintenance.

#### Leasing

Key features are payment periods of 3 to 5 years with simple documentation, you can return equipment at the lease end, and tax allowances may be available. You can also add new products and extend the lease term. Key benefits to Leasing are that it preserves capital, fixed payments ensure easy budgeting, it preserves existing lines of credit and there are no equipment disposal costs. Excludes service, calibration and maintenance.

## OTHER RENTAL CATALOGUES FROM LIVINGSTON



- DataComms and Transmission
- Industrial & Power
- RF Microwave and General Purpose



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### Anritsu MS9710C

#### Optical Spectrum Analyser

- Wavelength range: 600 - 1750nm
- Dynamic Range: 42dB & 70dB

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Manufacturer	Product	Description
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## OPTICAL ANALYSERS

Anritsu	MS9710C	<b>Optical Spectrum Analyser</b> <ul style="list-style-type: none"> <li>• Wavelength range: 600 - 1750nm</li> <li>• Dynamic Range:           <ul style="list-style-type: none"> <li>• 42dB (0.2nm from Peak Wavelength)</li> <li>• 70dB (1nm from Peak Wavelength)</li> </ul> </li> <li>• Stand alone instrument</li> <li>• GPIB, RS-232 and VGA Connector</li> </ul>
Exfo	FTB-200	<b>Portable Mainframe</b> <ul style="list-style-type: none"> <li>• Two Module Mainframe</li> <li>• Windows CE Operating System</li> <li>• Accepts range up to two wide Modules</li> <li>• Colour Touchscreen Display</li> <li>• USB and Ethernet Interfaces</li> </ul>
Exfo	FTB-5240	<b>Optical Spectrum Analyser</b> <ul style="list-style-type: none"> <li>• Wavelength Range 1250 nm -1650 nm</li> <li>• Dynamic Range -70 dBm /+15 dBm</li> <li>• Requires FTB-300 or FTB 400 Mainframes</li> </ul>
Exfo	FTB-5240B	<b>Optical Spectrum Analyser</b> <ul style="list-style-type: none"> <li>• Wavelength Range: 1250 -1650 nm</li> <li>• Wavelength Accuracy of <math>\pm 30</math> pm</li> <li>• ORR of 40 dB at 12.5 GHz from the peak</li> <li>• 40 Gbit/s-ready</li> <li>• ROADM-ready: In-band OSNR Measurement</li> </ul>



If you have any queries whilst you have equipment on hire, call Customer Services on +44 (0) 20 8943 5151 we're here to help



### JDSU MTS-8000

#### Optical Spectrum Analyser

- Wavelength Range: 1250 - 1650nm
- Dynamic Range: -75 to +23dBm

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Manufacturer	Product	Description
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## OPTICAL ANALYSERS

JDSU	MTS5200E	<b>Optical Spectrum Analyser</b> <ul style="list-style-type: none"><li>• Requires CMA500 Mainframe</li><li>• Wavelength Range: 1525 - 1570nm</li><li>• Wavelength Accuracy <math>\pm 0.02\text{nm}</math> typical</li><li>• Portable Mainframe:-</li><li>• MTS-5200 + 5071 WDM Module</li><li>• RS-232 and Ethernet Interface</li></ul>
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JDSU	MTS-8000	<b>Optical Spectrum Analyser</b> <ul style="list-style-type: none"><li>• Wavelength Range: 1250 - 1650nm</li><li>• Dynamic Range: -75 to +23dBm</li><li>• Wavelength Accuracy 10pm,</li><li>• Portable Instrument</li><li>• Ethernet, USB Interface</li></ul>
JDSU	OSA300	<b>Optical Spectrum Analyser</b> <ul style="list-style-type: none"><li>• Range 1250 nm to 1650 nm</li><li>• Dynamic Range -75 to +23 dBm</li><li>• Data Rates up to 10.7 Gb/s</li><li>• Resolution 0.065 dB</li><li>• Requires MTS8000 Mainframe</li></ul>
Anritsu	5501-100-	<b>OSA 200 with Filter</b> <ul style="list-style-type: none"><li>• Wavelength Range 1450 to 1650 nm</li><li>• Power Range -65 dBm to +15 dBm</li><li>• Resolution Bandwidth 85 pm</li><li>• Minimum Channel Spacing 25 GHz</li><li>• Requires CMA500 Mainframe</li></ul>

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**Exfo 5500/5800B**  
**CD/PMD Analyser Module**  
• Wavelength 1260 to 1675nm  
• Measurement Range 0 to 115 pS



Manufacturer	Product	Description
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## OPTICAL WDM

Agilent	86120C	<b>Multi-Wavelength Meter</b> <ul style="list-style-type: none"> <li>• Wavelength Range 1270 - 1650nm</li> <li>• Sensitivity: Maximum input:+10dBm</li> <li>• 1270 to 1600nm -40 dBm &amp;1600 to 1650nm -30 dBm</li> <li>• <math>\pm 3</math> pm Wavelength Acc/10 GHz Wavelength Res</li> <li>• Stand alone, portable rugged unit</li> </ul>
Exfo	FTB-74234C	<b>Triband Module</b> <ul style="list-style-type: none"> <li>• 1310, 1550 &amp; 1625 nm Singlemode</li> <li>• Dynamic Range 40 dB, (400 km range)</li> <li>• Event Dead Zone 0.8m</li> <li>• Requires FTB200 or FTB400 Mainframe.</li> </ul>
Exfo	5500/5800B	<b>CD/PMD Analyser Module</b> <ul style="list-style-type: none"> <li>• Wavelength 1260 to 1675nm</li> <li>• Measurement Range 0 to 115 pS</li> <li>• Sensitivity -45 dBm</li> <li>• Reference Source 1550/1625nm Super LED</li> <li>• Requires FTB-400 Mainframe</li> </ul>

When it comes to offering the right solutions...  
...we tick all the right boxes

- ✓ **Quick turnaround for delivery & collection**
- ✓ **Superior customer support**
- ✓ **The very latest products and services**





### Anritsu FD440 CD Analyser

- Extra High Powered Lasers
- Wavelength 1310nm and 1550nm



Manufacturer	Product	Description
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## OPTICAL WDM

Anritsu	PMD440	<b>PMD Analyser</b> <ul style="list-style-type: none"> <li>• PMD Scan Range 0.1 -145ps</li> <li>• PMD Measurement Range 0.1 -72ps</li> <li>• Michelson Interferometer Measurement</li> <li>• Measurement Speed 15 sec maximum</li> <li>• Fibre Measurement Range 150km</li> </ul>
Anritsu	FD440	<b>Chromatic Dispersion Analyser</b> <ul style="list-style-type: none"> <li>• Extra High Powered Lasers</li> <li>• Wavelength 1310nm and 1550nm</li> <li>• Dynamic Range:               <ul style="list-style-type: none"> <li>• 34dB (1310nm) and 37dB (1550nm)</li> </ul> </li> <li>• End-to-end dispersion of repeaterless sys</li> <li>• Fully field-portable and lightweight</li> <li>• Separate transmit and receive units</li> </ul>

## OPTICAL SOURCES

Exfo	FLS-300	<b>Light Source</b> <ul style="list-style-type: none"> <li>• 3 Singlemode Wavelengths on a single port</li> <li>• Wavelengths 1310nm 1490nm and 1550nm</li> <li>• Output Power +1dBm</li> <li>• 120hrs Operation</li> </ul>
JDSU	OLS-15	<b>Optical Single Port Laser Source</b> <ul style="list-style-type: none"> <li>• Wavelengths 1310nm and 1550nm</li> <li>• Output Power -7 dBm (Class 1)</li> <li>• CW and Modulated Modes</li> <li>• Battery Operation (28hrs typical)</li> </ul>



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### Anritsu OSICS

#### Tunable Laser Source

- Wavelength 1520nm - 1600nm
- Power Output 0dBm



Manufacturer	Product	Description
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## OPTICAL SOURCES

JDSU	OLS-55/01	<b>Hand Held/Optical Laser Source</b> <ul style="list-style-type: none"> <li>• Wavelengths 1310nm and 1550nm</li> <li>• Adjustable : -7 dBm to 0dB</li> <li>• Output Power Resolution: 0,01dB / Acc. 0,3dB</li> <li>• Remote control by USB</li> </ul>
Anritsu	OSICS	<b>Laser Source Mainframe</b> <ul style="list-style-type: none"> <li>• 8 Modules in a 19" " Mainframe</li> <li>• User friendly front panel</li> <li>• Instrument control thro IEE-488/RS-232C interfaces</li> <li>• External/Internal modulation capabilities</li> </ul>
Anritsu	OSICS	<b>Tunable Laser Source</b> <ul style="list-style-type: none"> <li>• Wavelength 1520nm - 1600nm</li> <li>• Power Output 0dBm</li> <li>• External Cavity Laser Source</li> <li>• Wavelength Stability 0.01nm/hr</li> <li>• Wavelength Accuracy 0.2nm</li> </ul>
Noyes	OLS-1-2C	<b>LED Multimode Source</b> <ul style="list-style-type: none"> <li>• Multimode 850 &amp; 1300nm</li> <li>• Output Power: -20dBm</li> <li>• Both 50 and 62,5 μM</li> <li>• Small Handheld. Battery Powered Source</li> <li>• No display or communication port</li> </ul>
Noyes	OLS-2	<b>Optical Light Source</b> <ul style="list-style-type: none"> <li>• Dual Wavelengths from a Single Port</li> <li>• Dual or Single Wave ID, CW, Tone</li> <li>• 270 Hz, 330 Hz, 1 kHz, 2 kHz Tone</li> <li>• Adjustable Output</li> </ul>



### Agilent 81624A InGaAS Optical Head

- Wavelength Range 800 nm to 1700 nm
- Power Range -90 dBm to +10 dBm

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Manufacturer	Product	Description
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## OPTICAL METERS

Agilent	8163A	<b>Lightwave Multimeter</b> <ul style="list-style-type: none"><li>• 190 x 300 point Graphical Display</li><li>• Display Resolution 0.0001 dB</li><li>• Accepts two Interface Modules</li><li>• 4000 Measurements per Channel</li><li>• GPIB, RS-232 and Parallel Interfaces</li></ul>
Agilent	81618A	<b>Single Interface Module</b> <ul style="list-style-type: none"><li>• For use with 8163A Mainframe</li><li>• Interfaces to 8162xB Optical Heads</li></ul>
Agilent	81624A	<b>InGaAS Optical Head</b> <ul style="list-style-type: none"><li>• Wavelength Range 800 nm to 1700 nm</li><li>• Power Range -90 dBm to +10 dBm</li><li>• Requires 8163A &amp; 81618A Interface</li></ul>
Agilent	81533B	<b>Single Interface Module</b> <ul style="list-style-type: none"><li>• For use with 8153A/B Mainframe</li><li>• Interfaces to 815xxA Optical Heads</li></ul>
Agilent	81525A	<b>Optical Head, InGaAs</b> <ul style="list-style-type: none"><li>• Wavelength Range 800 nm to 1650 nm</li><li>• Power Range -70 dBm to +27 dBm</li><li>• Requires 8153A/B Mainframe+81533B Interface</li></ul>



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**EXfo FOT-932****Optical Automated Test Set**

- Bi-directional Link-Loss + ORL Characterisation
- Ideal for Testing FTTx-based cables TV + High Speed Data services


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Manufacturer	Product	Description
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**OPTICAL POWER METERS**

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Anritsu	ML9001A	<b>Optical Power Meter</b> <ul style="list-style-type: none"> <li>• Single Channel Optical Power Meter</li> <li>• 4 Digit Display</li> <li>• Recorder Output</li> <li>• GPIB Interface</li> </ul>
Anritsu	MA9711A	<b>Optical Power Sensor</b> <ul style="list-style-type: none"> <li>• Wavelength Range 750 nm to 1700 nm</li> <li>• Power Range -40 dBm to +10 dBm</li> <li>• For use with ML9001A Power Meter</li> </ul>
Exfo	FOT-932	<b>Optical Automated Test Set</b> <ul style="list-style-type: none"> <li>• Bi-directional Link-Loss + ORL Characterisation</li> <li>• Ideal for Testing :</li> <li>• FTTx-based cables TV + High Speed Data services</li> <li>• Wavelengths 850/1300 Multimode &amp; 1310/1550nm Singlemode</li> <li>• Measurement Range +10 to -70 dBm</li> </ul>
Exfo	PMM-352B	<b>PON Power Meter</b> <ul style="list-style-type: none"> <li>• Filtered Measurements, 1310nm, 1490nm and 1500nm</li> <li>• Full OLT-to-ONT communication while testing</li> <li>• Simultaneous Measurement/display of Voice, Data &amp; Video Signals</li> <li>• on BPON, EPON and GPON architectures</li> <li>• Ten user-definable threshold sets</li> </ul>



### Fluke DTX1800 Multimode Fibre Module

- Multimode Fibre Module for use with DTX1800
- Wavelengths Supported 850 nm and 1300 nm

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Manufacturer	Product	Description
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## OPTICAL POWER METERS

Fluke	DTX	<b>Multimode Fibre Module</b> <ul style="list-style-type: none"><li>• Multimode Fibre Module for use with DTX1800</li><li>• Wavelengths Supported 850 nm and 1300 nm</li><li>• Supplied as a pair</li><li>• SC Connectors</li></ul>
JDSU	OLP-15B	<b>Optical Power Meter</b> <ul style="list-style-type: none"><li>• 800 nm to 1700 nm Range</li><li>• -70 dBm to +11 dBm Measurement Range</li><li>• Internal Storage for up to 150 readings</li><li>• Battery Powered</li><li>• RS-232 Interface for output of results to PC</li></ul>
JDSU	OLP-18C	<b>Optical Power Meter</b> <ul style="list-style-type: none"><li>• Range 800nm to 1700nm</li><li>• Display Range -60 - +26dBm</li><li>• Data Memory 1000 results</li><li>• Small Handheld Battery Powered Meter</li><li>• Communication through RS-232 Interface</li></ul>
JDSU	OLA-15B	<b>Variable Optical Attenuator</b> <ul style="list-style-type: none"><li>• Range of Use 1260 to 1625 nm</li><li>• Calibrated at 1310 and 1550 nm</li><li>• Maximum input power +23dBm</li><li>• Attenuation Range 3 to 60 dB</li><li>• Battery Powered, 4 Digit Display</li></ul>



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### JDSU OLP-55/26

#### Optical Power Meter

- Adjustable Wavelength Range: 800-1700nm.
- Calibrated Wavelengths 850/1310/1550 & 1625nm



Manufacturer	Product	Description
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## OPTICAL POWER METERS

JDSU	OVF-1	<b>Visible Fault Locator</b> <ul style="list-style-type: none"> <li>• Wavelength: 635nm</li> <li>• Output Power -5 dBm</li> <li>• Universal adapter for all 2.5mm connector systems</li> <li>• Battery Powered</li> </ul>
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JDSU	OLP-15C	<b>Optical Power Meter</b> <ul style="list-style-type: none"> <li>• Adjustable Wavelength Range: 780 - 1650nm</li> <li>• Measurement Range from -70 to +20 dBm</li> <li>• Structured Data Memory for 1000 results</li> <li>• Battery Powered</li> <li>• RS-232 Data Recall</li> </ul>
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Qualified engineers to help with your equipment set up if needed

JDSU	OLA-55M	<b>Hand Held/Optical Level Attenuator</b> <ul style="list-style-type: none"> <li>• Range of Use 1260 to 1625 nm</li> <li>• Calibrated at 1310, 1550 &amp; 1625nm</li> <li>• Maximum input Power +23dBm</li> <li>• Attenuation Range 3 to 60 dB</li> <li>• Battery Powered</li> <li>• Remote Controllable by USB</li> </ul>
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JDSU	OLP-55/26	<b>Optical Power Meter</b> <ul style="list-style-type: none"> <li>• Adjustable Wavelength Range: 800-1700nm.</li> <li>• Calibrated Wavelengths 850/1310/1550 &amp; 1625nm</li> <li>• Display Range: -60 to +26dBm</li> <li>• Internal Memory for 1.000 measurement results or USB</li> <li>• Battery Powered</li> <li>• A USB Port for Remote Operation</li> </ul>
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### JDSU OFI-2000

#### Optical Tester

- Bi-directional loss test set for fiber loss on, CATV,DWDM,/PON sys.
- Optional ORL, VFL, and optical talkset functions

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Manufacturer	Product	Description
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## OPTICAL POWER METERS

JDSU	OMK-55	<b>Loss Test Set</b> <ul style="list-style-type: none"><li>• Kit consists of:-</li><li>• Single-Port Dual Laser Source 1310/1550nm (OLS-56)</li><li>• Optical Power Meter (OLP-55)</li><li>• High Dynamic Range -60 - +26dBm</li><li>• Battery Powered</li><li>• Data Storage of 1000 results. USB</li></ul>
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Qualified engineers to help with your equipment set up if needed

JDSU	OLP-6	<b>Optical Power Meter</b> <ul style="list-style-type: none"><li>• Wavelength Range 780 nm to 1700 nm</li><li>• Measurement Range -65 dBm to +10 dBm</li><li>• Battery Operation</li></ul>
JDSU	OFI-2000	<b>Optical Tester</b> <ul style="list-style-type: none"><li>• Bi-directional loss test set for fiber loss on, CATV,DWDM,/PON sys.</li><li>• Optional ORL, VFL, and optical talkset functions</li><li>• 15 s for a full tri-wavelength bi-directional link test</li><li>• One touch FOX (Fiber Optic eXpert) button</li><li>• Dual and tri-wavelength versions 1310/1550/1625 nm</li><li>• Graphical User Interface (GUI)</li><li>• Powerful report generation,Download via PC software</li></ul>
JDSU	OLP-57	<b>FTTx Optical Power Meter 1310/1490nm</b> <ul style="list-style-type: none"><li>• Optical Power Meter ,BPON/EPON/GPON</li><li>• 3 Wavelengths 1490/1550/1310 nm</li><li>• 10 pre-defined, user-adjustable sets are provided</li><li>• Graphical User Interface (GUI)</li><li>• Data Transfer via USB Interface</li></ul>

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### Noyes OPM4-4D

#### Optical Power Meter

- Wavelength 850/980/1310/1490/1550 & 1625nm
- Measurement Range from -50 to +26 dBm

Manufacturer	Product	Description
<b>OPTICAL POWER METERS</b>		
KD Optics	PM30	<b>Optical Power Meter</b> <ul style="list-style-type: none"> <li>• Wavelengths 1310 nm /1550 nm</li> <li>• Input Range -70 dBm to +10 dBm</li> <li>• 4 Digit Display</li> <li>• Battery Operation</li> </ul>
Anritsu	GN6025	<b>Loss Test Set (Pair)</b> <ul style="list-style-type: none"> <li>• Calibrated Wavelengths 850/1300/1310/1550 &amp; 1625 nm</li> <li>• Range -66 dBm to +3 dBm</li> <li>• Accuracy 0.2 dBm</li> <li>• Resolution 0.01 dB</li> </ul>
Noyes	OPM4-4D	<b>Optical Power Meter</b> <ul style="list-style-type: none"> <li>• Wavelength 850/980/1310/1490/1550 &amp; 1625nm</li> <li>• Measurement Range from -50 to +26 dBm</li> <li>• Including Wavelength ID</li> <li>• Battery Powered</li> <li>• No Communication Port</li> </ul>
Noyes	SVA1-FC/SC	<b>Optical Attenuator Singlemode</b> <ul style="list-style-type: none"> <li>• Wavelengths; 1310 &amp; 1550nm</li> <li>• Insertion Loss 1.5dB at 1310nm</li> <li>• Attenuation Range 0 to 60 dB</li> <li>• Battery Operation</li> </ul>
Noyes	OPM1-3B	<b>Optical Power Meter</b> <ul style="list-style-type: none"> <li>• Wavelengths; 850, 1300, 1310, 1550 and 1625 nm</li> <li>• Power Range -70 to +6 dBm</li> <li>• Battery Operation</li> </ul>



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### Anritsu MW9076C Singlemode Mini OTDR

- Singlemode 1310/1550/1625nm
- Dynamic Range: 41,5/39,5/37dB (20uSec)

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Manufacturer	Product	Description
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## ODTR

Anritsu	MW9076B	<b>Singlemode Mini OTDR</b> <ul style="list-style-type: none"><li>• Singlemode 1310/1550nm</li><li>• Dynamic Range: 45/43dB (20µSec)</li><li>• Dead Zone 8m</li><li>• Storage: Build in Floppy Drive</li></ul>
Anritsu	MW9076D	<b>Mini OTDR/Chromatic Dispersion/Battery</b> <ul style="list-style-type: none"><li>• Wavelength Range 1310/1410/1550/1625nm</li><li>• Up to 45dB Dynamic Range</li><li>• Dead zone 8m</li><li>• Measures Chromatic Dispersion in the field from one end</li><li>• Measurement in 10s (full auto mode). 0.15s real-time sweep</li><li>• Resolution 5cm/50.000 sampling points</li><li>• Colour LCD display</li></ul>
Anritsu	MW9076C	<b>Singlemode Mini OTDR</b> <ul style="list-style-type: none"><li>• Singlemode 1310/1550/1625nm</li><li>• Dynamic Range: 41,5/39,5/37dB (20uSec)</li><li>• Dead zone 8m</li><li>• Storage: Build in Floppy drive</li></ul>



### When should I rent? When should I buy?

Research shows that over 50% of purchased equipment is either rarely or never used after the initial purchase. When your equipment is not used constantly rental will often be the cheaper option.

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**Exfo FTB-200****Singlemode OTDR**

- Singlemode 1310,1383,1550 & 1625nm
- Dynamic Range up to 41db (20µsec)

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Manufacturer	Product	Description
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**ODTR**

<b>Exfo</b>	<b>FTB-7523B</b>	<b>Singlemode OTDR</b> <ul style="list-style-type: none"> <li>• Singlemode 1310/1550nm</li> <li>• Dynamic Range: 45/45dB (20uSec)</li> <li>• Attenuation Dead Zone 10/10m</li> <li>• Storage: USB or Compact Flash</li> <li>• Communication: Ethernet, USB</li> </ul>
<b>Exfo</b>	<b>FTB-100B</b>	<b>Mainframe Unit</b> <ul style="list-style-type: none"> <li>• Single Slot Mainframe</li> <li>• Support wide range of OTDR Modules</li> </ul>
<b>Exfo</b>	<b>FTB-7300D</b>	<b>Singlemode OTDR</b> <ul style="list-style-type: none"> <li>• Singlemode 1310 &amp; 1550 nm</li> <li>• Dynamic Range 50dB, 250 km</li> <li>• Event Dead Zone 1m</li> <li>• Requires FTB-200 or FTB-400 Mainframe</li> </ul>
<b>Exfo</b>	<b>FTB-200</b>	<b>Singlemode OTDR</b> <ul style="list-style-type: none"> <li>• Singlemode 1310,1383,1550 &amp; 1625nm</li> <li>• Dynamic Range up to 41db (20µsec)</li> <li>• Attenuation Dead Zone 3m</li> <li>• Storage: USB or Compact Flash</li> <li>• Communication: Ethernet, USB</li> </ul>
<b>Exfo</b>	<b>AXS-100</b>	<b>FTTx OTDR</b> <ul style="list-style-type: none"> <li>• Wavelengths 1310/1550/ &amp; 1625 nm filtered</li> <li>• 29 dB/28 dB/28 dB / Up to 160 km</li> <li>• Dead Zone 2.5 m</li> <li>• Memory Capacity 500 traces</li> <li>• Infrared Printer, USB and RJ45 Interfaces</li> </ul>



### Fluke OptiFiber Multimode OTDR

- Multimode 850/1300nm
- Dynamic Range 15/14dB (by 200nSec)

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Manufacturer	Product	Description
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## ODTR

Fluke	OptiFiber	<b>Multimode OTDR</b> <ul style="list-style-type: none"><li>• Multimode 850/1300nm</li><li>• Dynamic Range 15/14dB (by 200nSec)</li><li>• Attenuation Dead Zone: 2 m</li><li>• Storage: SD MMC Card and USB</li><li>• Communication: RS-232, USB</li></ul>
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Qualified engineers to help with your equipment set up if needed

Fluke	OF-500	<b>Optifiber Certifying OTDR</b> <ul style="list-style-type: none"><li>• Multimode 850 nm &amp; 1310 nm</li><li>• Dynamic Range 15 dB</li><li>• Dead Zone 0.5 m at 850 nm &amp; 1.3 m at 1310 nm</li><li>• SD MMC Memory Card</li><li>• RS-232 and USB Interfaces</li></ul>
JDSU	MTS-8000	<b>Mainframe</b> <ul style="list-style-type: none"><li>• Battery Powered Mainframe</li><li>• 10.4 inch Colour Touchscreen TFT display</li><li>• 16 Mb Internal Memory</li><li>• 20 Gb Hard Drive</li><li>• RS-232, USB and Ethernet Interfaces</li></ul>
JDSU	5026DR	<b>Singlemode OTDR</b> <ul style="list-style-type: none"><li>• Singlemode 1310/1550nm</li><li>• Dynamic Range 37/35dB (by 10uSec)</li><li>• Attenuation Dead Zone: 8 m</li><li>• Storage: Internal Memory. Optional HD &amp; FD</li><li>• Communication: RS-232, Ethernet Optional</li><li>• Includes MTS - 5100E</li></ul>

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### JDSU 8136HD

#### Singlemode OTDR

- Singlemode 1310nm, 1550nm & 1625 nm
- Dynamic Range 42 dB up to 380 km distance

Manufacturer	Product	Description
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## ODTR

JDSU	8126VHD	<b>Singlemode OTDR</b> <ul style="list-style-type: none"> <li>• Singlemode 1310 &amp; 1550nm</li> <li>• Dynamic Range: 44/44dB (20uSec)</li> <li>• Attenuation Dead Zone 20m</li> <li>• 8 Mbit Internal Memory or USB.</li> <li>• Optional HD or Floppy Disk</li> <li>• Communication: Ethernet, 2 x USB, RS-232</li> <li>• Includes MTS-8000</li> </ul>
JDSU	8126HD	<b>Singlemode OTDR</b> <ul style="list-style-type: none"> <li>• Multimode 1310 nm &amp; 1550 nm</li> <li>• Dynamic Range 42 dB up to 380 km distance</li> <li>• 3 m Event Dead Zone</li> <li>• Use with MTS8000 or MTS6000 Mainframes</li> </ul>
JDSU	8136HD	<b>Singlemode OTDR</b> <ul style="list-style-type: none"> <li>• Singlemode 1310nm, 1550nm &amp; 1625 nm</li> <li>• Dynamic Range 42 dB up to 380 km distance</li> <li>• 3 m Event Dead Zone</li> <li>• Use with MTS8000 or MTS6000 Mainframes</li> </ul>



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JDSU	8126DR	<b>Singlemode OTDR</b> <ul style="list-style-type: none"> <li>• Singlemode 1310 nm &amp; 1550 nm</li> <li>• Dynamic Range 37 dB up to 260 km distance</li> <li>• 1 m Event Dead Zone</li> <li>• Use with MTS8000 or MTS6000 Mainframes</li> </ul>
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### JDSU 8126VHD Singlemode OTDR

- Multimode 1310 nm and 1550 nm
- Dynamic Range 45 dB up to 380 km distance

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Manufacturer	Product	Description
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## ODTR

JDSU	8123MM	<b>Multimode OTDR</b> <ul style="list-style-type: none"><li>• Multimode 850 nm and 1310 nm</li><li>• Dynamic Range 25 dB up to 80 km distance</li><li>• 1.5 m Event Dead Zone</li><li>• Use with MTS8000 or MTS6000 Mainframes</li></ul>
JDSU	8126VHD	<b>Singlemode OTDR</b> <ul style="list-style-type: none"><li>• Multimode 1310 nm and 1550 nm</li><li>• Dynamic Range 45 dB up to 380 km distance</li><li>• 0.8 m Event Dead Zone</li><li>• Use with MTS8000 or MTS6000 Mainframes</li></ul>
JDSU	MTS-5200e	<b>Mainframe</b> <ul style="list-style-type: none"><li>• Battery Powered Mainframe</li><li>• Colour Display</li><li>• 1 Gb Internal Hard Drive</li><li>• RS-232 and Parallel Interfaces</li></ul>
JDSU	MTS-6000	<b>Compact Optical Test Platform</b> <ul style="list-style-type: none"><li>• Supports a range of OTDR Modules</li><li>• Rugged Construction</li><li>• Compact and Lightweight</li></ul>
JDSU	8138VLR49	<b>VLR OTDR</b> <ul style="list-style-type: none"><li>• Singlemode 1310, 1490 &amp; 1550 nm</li><li>• Dynamic Range 43 dB, Range up to 380 km</li><li>• 0.8 m Event Dead Zone</li><li>• Use with MTS8000 or MTS6000 Mainframe</li></ul>



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### NoyesM200 Quad

#### OTDR Single/Multimode

- Single & Multimode 850nm/1300nm/1310nm/1550nm
- Dynamic Range 22dB Multimode/ 26dB Singlemode

Manufacturer	Product	Description
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## ODTR

Anritsu	5266	<b>OTDR Module</b> <ul style="list-style-type: none"> <li>• Multimode OTDR Module</li> <li>• Wavelengths 850 nm and 1300 nm</li> <li>• Dynamic Range 24 dB</li> <li>• Dead Zone 2.5 m</li> <li>• Use with CMA5000 Mainframe</li> </ul>
Noyes	M100	<b>Quad Band OTDR</b> <ul style="list-style-type: none"> <li>• Single &amp; Multimode 850/1300/1310/1550nm</li> <li>• Dynamic Range: 21/23/26/26 (1 &amp; 10µSec)</li> <li>• Attenuation Dead Zone 20m</li> <li>• Storage: 16 Mbit Compact Flash Card</li> </ul>
Noyes	M200 Quad	<b>OTDR Single/Multimode</b> <ul style="list-style-type: none"> <li>• Single &amp; Multimode 850nm/1300nm/1310nm/1550nm</li> <li>• Dynamic Range 22dB Multimode/ 26dB Singlemode</li> <li>• Dead Zone 1.5m</li> <li>• Storage of 100 traces on Internal Memory</li> </ul>
Sunrise	MTT-35A	<b>Portable OTDR</b> <ul style="list-style-type: none"> <li>• Wavelength 1310/1550nm</li> <li>• Dynamic Range 28dB</li> <li>• Other modules available for SS-MTT series:-</li> <li>• (Gigabit, SDH, ADSL and VDSL)</li> <li>• Storage of 500 traces</li> </ul>
Fluke	DTX	<b>Quad Band OTDR</b> <ul style="list-style-type: none"> <li>• 850/1300nm Multimode-1310/1550nm Singlemode</li> <li>• Dynamic Range 24dB, 20km Range</li> <li>• Dead Zone 3.5m</li> <li>• Internal Storage of 200 traces + SD Card Storage</li> </ul>



### Furukawa S175

#### Fusion Splicer

- Multimode and Singlemode
- Fully automatic core-to-core alignment

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Manufacturer	Product	Description
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## FUSION SPLICERS

Fujikura	FSM-50S	<b>Fusion Splicer</b> <ul style="list-style-type: none"><li>• Multimode and Singlemode</li><li>• Suitable for use with:</li><li>• SMF/DSF/NZ-DSF &amp; MM fibres</li><li>• 9 Second Splice time for SM fibre</li><li>• Supplied with CT-20 Precision Cleaver and stripper</li><li>• Automated splice program selection</li></ul>
Furukawa	S175	<b>Fusion Splicer</b> <ul style="list-style-type: none"><li>• Multimode and Singlemode</li><li>• Fully automatic core-to-core alignment</li><li>• 17sec splice time</li><li>• Incl. I AC power unit, Stripper and Cleaver</li><li>• Windshield-integrated fibre clamp</li><li>• Automated splice program selection</li></ul>
Furukawa	S176-LP	<b>Fusion Splicer</b> <ul style="list-style-type: none"><li>• Self-aligning</li><li>• Fast - 11 seconds splice time</li><li>• Auto-start Function</li><li>• Ease of use - short cut key</li><li>• High accuracy. clarity of display</li></ul>
Furukawa	S177-1	<b>Fusion Splicer</b> <ul style="list-style-type: none"><li>• Multimode and Singlemode</li><li>• Suitable for use with:</li><li>• SMF,MMF,DSF,NZDSF,CSF,PSCF,EPSC.</li><li>• 9 second splice time for SM fibre</li><li>• Supplied with Precision Cleaver, core alignment</li><li>• Automated splice program selection</li></ul>

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### Sumitomo T-39

#### Fusion Splicer

- Core Aligning Splicer
- Supports Fibre Types SMF, MMF, NZ-DSF, DSF & CSF



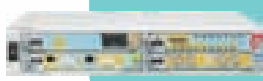
Manufacturer	Product	Description
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## FUSION SPLICERS

Sumitomo	T-37SE	<b>Fusion Splicer</b> <ul style="list-style-type: none"> <li>• Multimode and Singlemode</li> <li>• Suitable for use with:</li> <li>• SMF,MMF,DSF,NZDSF,CSF,PSCF,EPSC.</li> <li>• 10 second splice time for SM fibre</li> <li>• Supplied with Precision Cleaver, core alignment</li> <li>• Automated splice program selection</li> </ul>
Sumitomo	T-39	<b>Fusion Splicer</b> <ul style="list-style-type: none"> <li>• Core Aligning Splicer</li> <li>• Supports Fibre Types:-</li> <li>• SMF, MMF, NZ-DSF, DSF and CSF</li> <li>• 9 second Splice Time</li> <li>• Dual Heat Shrink Ovens for improved throughput</li> </ul>

## VIDEO FIBRE SCOPES

AWT200	Video Fibre Scope	<ul style="list-style-type: none"> <li>• Portable Video Fibre Microscope LCD screen</li> <li>• Maximum input power +30dBm</li> <li>• Supplied with standard connector types incl.</li> <li>• FC/APC, LC, SC, MU, E2000, MPX, MTRJ, FC, ST &amp; SC</li> <li>• Battery Powered</li> <li>• Standard 3.75 inch LCD screen</li> </ul>
FIP-400	Video Insp Probe (Single)	<ul style="list-style-type: none"> <li>• Video Inspection Probe (400X magnification)</li> <li>• FC-SC tip for bulheads</li> <li>• U25M Universal patchcord tip for 2.5 mm ferrules</li> <li>• Software &amp; Instruction Manual on CD</li> </ul>



**Agilent N5551A**  
**Electrical/Optical Interface**

- 4 Port 10/100/1000 Base-T
- Base-X Ethernet Test Card



Manufacturer	Product	Description
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**DATACOMMS NETWORK TESTING**

Agilent	N5551A	<b>Electrical/Optical Interface</b> <ul style="list-style-type: none"> <li>• 4 Port 10/100/1000 Base-T</li> <li>• Base-X Ethernet Test Card</li> <li>• use with N2X Software Solutions</li> </ul>
Agilent	N5555A	<b>Protocols Test Solution</b> <ul style="list-style-type: none"> <li>• Software Package for N2X Test Cards</li> <li>• Includes one 4 slot chassis (N5541A)</li> <li>• E7880B Software included</li> <li>• Additional Software specific for Protocol environments</li> </ul>
Anritsu	CMA5000	<b>Telecomm Analyser Mainframe</b> <ul style="list-style-type: none"> <li>• Small Highly Portable 4-slot Mainframe</li> <li>• Ethernet module (10) Gigabit SDH module</li> <li>• OTDR module</li> <li>• Dispersion Measurement module</li> <li>• Real-time Measurement of in-service traffic</li> </ul>
Anritsu	5700-001	<b>CMA5000 GigE Module</b> <ul style="list-style-type: none"> <li>• 2 x Optical GigE Interfaces</li> <li>• 2 x Electrical GigE Interfaces</li> <li>• Optical Interface via Industry Standard GBICs</li> <li>• Traffic Generation and Monitoring</li> <li>• Requires CMA5000 Mainframe</li> </ul>
Anritsu	CMA5000	<b>10GigE LR Module</b> <ul style="list-style-type: none"> <li>• 10 Gigabit Ethernet LAN Module.</li> <li>• 1 Optical Interface 1310nm for 10GigE</li> <li>• RFC-2544 (Latency, Frame Loss measurement)</li> <li>• 10 Gigabit Module for model CMA-5000</li> <li>• Communication through Ethernet or USB CMA-5000</li> </ul>



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### Exfo FTB 8520

#### SAN Test Module

- Two-port 1 Gb/s (100 MB/s) & 2 Gb/s (200 MB/s)
- Dual port with replaceable Optical Interfaces (SFP)

Manufacturer	Product	Description
<b>DATACOMMS NETWORK TESTING</b>		
Exfo	FTB-400	<b>Universal Test Platform</b> <ul style="list-style-type: none"> <li>• Five Configurations, Maximum Flexibility</li> <li>• Pentium-powered. to 512 MB Memory</li> <li>• Easy-to-read. high-resolution 12.1" TFT screen</li> <li>• Windows® 2000 operating system</li> <li>• Simultaneous acquisitions/fast data post-processing</li> </ul>
Exfo	FTB-8520	<b>SAN Test Module</b> <ul style="list-style-type: none"> <li>• Two-port 1 Gb/s (100 MB/s) &amp; 2 Gb/s (200 MB/s)</li> <li>• Dual port with replaceable Optical Interfaces (SFP)</li> <li>• Fibre Channel Module for model FTB-400</li> <li>• Communication through Ethernet or USB (FTB-400)</li> </ul>
Exfo	FTB-8510B	<b>Ethernet Tester 10/100/1000</b> <ul style="list-style-type: none"> <li>• Comprehensive measurements to RFC 2544</li> <li>• Packet-jitter Measurement</li> <li>• EtherBERT test functionality</li> <li>• Assessing the integrity on WDM networks</li> <li>• Multiple-stream generation and analysis</li> <li>• QoS verification through VLAN and TOS/DSCP</li> </ul>
Exfo	FTB-8510G	<b>10GigE Module</b> <ul style="list-style-type: none"> <li>• Portable 10GigE LAN/WAN test configuration</li> <li>• 1 Optical Interface 1310nm - 10GigE through SFP</li> <li>• RFC-2544 (Latency, Frame Loss measurement)</li> <li>• Can be used in FTB-200 or FTB-400</li> <li>• Communication through Ethernet or USB</li> </ul>
Fluke	DTX-1800	<b>Cable Analyser</b> <ul style="list-style-type: none"> <li>• Cat 5e/6/7 with superior Level IV Accuracy</li> <li>• 900 MHz for 10 GigE. Class F and CATV</li> <li>• 16 MB on-board memory and saves up 300 tests</li> </ul>



### JDSU Smarthclass Single Port Gig-E Tester

- 10/100/1000 Electrical + GigE SFP Interfaces
- RFC 2544 Automated Test

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## DATACOMMS NETWORK TESTING

Fluke	Etherscope II	<b>LAN and WLAN Analyser</b> <ul style="list-style-type: none"><li>• Test to Gigabit Speeds in full Duplex Mode</li><li>• Monitor Network Performance</li><li>• View Wireless Networks</li></ul>
JDSU	FST-2802	<b>Gigabit Ethernet Performance Analyser</b> <ul style="list-style-type: none"><li>• Dual Media 10/100/1000 Mbps and GigE</li><li>• 2 Ports 10/100Base-T (RJ-45)</li><li>• 2 Ports 1000Base with Optical Interfaces</li><li>• Measurement to RFC-2544</li><li>• Throughput, Latency, Frame Loss rate</li></ul>
JDSU	HST-3000	<b>Handheld Service Tester</b> <ul style="list-style-type: none"><li>• Handheld platform supporting a multitude of applications:<ul style="list-style-type: none"><li>• Datacomms, Telecoms and Triple Play Testing</li></ul></li></ul>
JDSU	CHST-M35	<b>Ethernet Test Module</b> <ul style="list-style-type: none"><li>• 10 Mb/s 100 Mb/s &amp; Gigabit Ethernet</li><li>• Dual Port Electrical &amp; SFP Optical</li><li>• IP Layer 2 &amp; Layer 3 Testing</li><li>• Use with HST-3000 Mainframe</li></ul>
JDSU	C8424	<b>10Gb Ethernet, 1310/1550nm</b> <ul style="list-style-type: none"><li>• Single Port</li><li>• Terminate, Monitor &amp; Loopback Modes</li><li>• Layer 2 &amp; 3 Testing</li><li>• Requires MTS-8000 Mainframe</li></ul>
JDSU	SmartClass	<b>Single Port Ethernet Gig-E Tester</b> <ul style="list-style-type: none"><li>• 10/100/1000 Electrical + GigE SFP Interfaces</li><li>• RFC 2544 Automated Test</li><li>• Layer 2 BERT</li></ul>

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### Spirent EDM-2001B

#### Ethernet Module

- 4 Port 10/100/1000 Ethernet Module
- Copper and 1Gb SFP Fibre

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Manufacturer	Product	Description
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## DATACOMMS NETWORK TESTING

Spirent	Smartbits	<b>SMB-600 Mainframe</b> <ul style="list-style-type: none"> <li>• Small, lightweight and portable 2-slot chassis</li> <li>• Holds up to two modules</li> <li>• Available with SmartWindows®</li> </ul>
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Spirent	Smartbits	<b>6000B 12 Slot Mainframe</b> <ul style="list-style-type: none"> <li>• 12-slot chassis</li> <li>• Holds up to twelve Modules</li> <li>• Available with SmartWindows®</li> </ul>
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Spirent	Smartbits Modules	The following modules to be used with Smartbits Mainframes
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Spirent	EDM-1001B	<b>Interface Module</b> <ul style="list-style-type: none"> <li>• 4 Port 10/100/1000 Ethernet</li> <li>• Dual Media, Electrical &amp; SFP Optical Interfaces</li> </ul>
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Spirent	EDM-1003B	<b>Interface Module</b> <ul style="list-style-type: none"> <li>• 12 Ports 10/100/1000 Ethernet</li> <li>• Dual Media, Electrical &amp; Optical SFP Interfaces</li> </ul>
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Spirent	EDM-2001B	<b>Ethernet Module</b> <ul style="list-style-type: none"> <li>• 4 Port 10/100/1000 Ethernet Module</li> <li>• Copper and 1Gb SFP Fibre</li> </ul>
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Spirent	FBC-3602A	<b>Fibre Channel 1G/2G 2-port Module</b> <ul style="list-style-type: none"> <li>• Full line-rate Traffic Generation</li> <li>• Analysis at 1 and 2Gb/s</li> <li>• Supports Point-to-Point and Loop Modes</li> </ul>
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### Spirent LAN-3201B

#### 1 Port GigE Smartmetrics Module

- Performance measurements of Layer 2 & 3 devices
- Interoperability testing of Layer 2 & 3 devices

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Manufacturer	Product	Description
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## DATACOMMS NETWORK TESTING

Spirent	Smartbits Modules	The following modules to be used with Smartbits Mainframes
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Spirent	LAN-3101B	<b>10/100 Mbps Ethernet SmartMetrics Card</b> <ul style="list-style-type: none"><li>• 6 Ports 10Base-T/100Base-T (RJ-45)</li><li>• VLAN Tagged and Untagged IPv4, IPv6, TCP &amp; UDP, RFC-2544</li></ul>
Spirent	LAN-3201B	<b>1 Port GigE Smartmetrics Module</b> <ul style="list-style-type: none"><li>• Performance measurements of Layer 2 &amp; 3 devices</li><li>• Interoperability testing of Layer 2 &amp; 3 devices</li></ul>
Spirent	LAN-3310A	<b>2 Port GigE XD Smartmetrics Module</b> <ul style="list-style-type: none"><li>• Generate up to 512 independent IP Streams</li><li>• Supports Full and Half Duplex Modes</li></ul>
Spirent	LAN-3320A	<b>2 Port Gigabit Ethernet Smart Metric module</b> <ul style="list-style-type: none"><li>• Dual Media 10/100/1000 Mbps and GigE</li><li>• 2 Ports 10/100/1000Base-T (RJ-45)</li><li>• 2 Port 1000Base-SX/TX</li><li>• RFC-2544</li></ul>
Spirent	LAN-3321A	<b>2 Port TeraMetrics 10/100/1000 Base Module</b> <ul style="list-style-type: none"><li>• Dual Media 10/100/1000 Mbps and GigE</li><li>• 2 Ports 10/100/1000Base-T (RJ-45)</li><li>• 2 Port 1000Base-SX/TX</li><li>• RFC-2544</li></ul>
Spirent	LAN-3324A	<b>Smartmetrics XD 4-port GigE module</b> <ul style="list-style-type: none"><li>• Dual Media 10/100/1000 Mbps and GigE</li><li>• 4 Ports 10/100/1000Base-T (RJ-45)</li><li>• 4 Port 1000Base-SX/TX</li><li>• RFC-2544</li></ul>

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### SmartBits XLW-3721A

#### Module

- For use with SMB6001 Mainframe
- Various configurations available

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Manufacturer	Product	Description
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## DATACOMMS NETWORK TESTING

Spirent	Smartbits Modules	The following modules to be used with Smartbits Mainframes
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Spirent	XFP-2001B	<b>Interface Module</b> <ul style="list-style-type: none"> <li>• Single Port 10GigE</li> <li>• XFP Optical Interface</li> </ul>
Spirent	XFP-3730A	<b>Smartmetrics 10 GigE 1 Port Module</b> <ul style="list-style-type: none"> <li>• 10 GigE LAN/WAN Interface module</li> <li>• 1 Port 10 GigE SFP transceiver 1310nm</li> <li>• RFC-2544 and RFC 2889</li> </ul>
Spirent	XFP-3731	<b>Terametrics 10 GigE Module</b> <ul style="list-style-type: none"> <li>• 10 Gigabit Ethernet Module</li> <li>• XFP Optical Interface</li> <li>• Requires Wavelengths when ordering</li> </ul>
Spirent	XLW-3720A	<b>Smartmetrics 10 GigE Module</b> <ul style="list-style-type: none"> <li>• 10 GigE LAN/WAN Interface Module</li> <li>• 1 Port 10 GigE XENPAK transceiver 1310nm</li> <li>• RFC-2544 and RFC 2889</li> </ul>



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Spirent	XLW-3721A	<b>1 Port 10 GigE Terametrics Module</b> <ul style="list-style-type: none"> <li>• Protocols supported: <ul style="list-style-type: none"> <li>• Ipv4, IPv6, UDP, TCP, ARP, ICMP &amp; IGMP</li> <li>• RIP, BGP-4, OSPF &amp; MPLS</li> </ul> </li> <li>• Generate up to 512 independent IP Streams</li> <li>• Analyse up to 64,000 unique Streams</li> </ul>
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### Sunrise Sunset MTT Portable GigE Tester

- Dual Media 10/100/1000 Mbps/GigE
- 2 Ports 10/100Base-T (RJ-45)

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Manufacturer	Product	Description
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## DATAKOMMS NETWORK TESTING

Sunrise	Sunset MTT	<b>Portable Gigabit Ethernet Tester</b> <ul style="list-style-type: none"><li>• Dual Media 10/100/1000 Mbps/GigE</li><li>• 2 Ports 10/100Base-T (RJ-45)</li><li>• 2 Port 1000Base</li><li>• RFC-2544</li></ul>
Sunrise	SSMTT-28B	<b>Sunset MTT 10/100 Ethernet Module</b> <ul style="list-style-type: none"><li>• Supports 10/100 Mbps line Rates</li><li>• BERT Layers: 1, 2 and 3 for Ethernet &amp; IP Services</li><li>• Simulate and Monitor Traffic</li><li>• Requires Sunset MTT Handheld Mainframe</li></ul>
Sunrise	SSMTT-29B	<b>Gigabit Ethernet Module</b> <ul style="list-style-type: none"><li>• Gigabit Ethernet</li><li>• Two Ports</li><li>• Performance, Frame and Link Statistics</li><li>• Requires MTT Mainframe</li></ul>
Sunrise	SSMTT-29E	<b>Gigabit Ethernet Module</b> <ul style="list-style-type: none"><li>• Gigabit Ethernet</li><li>• Two Ports</li><li>• Performance, Frame and Link Statistics</li><li>• Requires MTT Mainframe</li></ul>
Sunrise	SSMTT-30Z	<b>Fibre Channel Dual Port Module 4G</b> <ul style="list-style-type: none"><li>• Fibre Channel at 1.0625, 2.125 &amp; 4.25 Gbps</li><li>• ESCON at 200 Mbps</li><li>• User settable frame length (28 - 2140 bytes)</li><li>• Programmable FC-2 header</li><li>• Test from 1% to 100% bandwidth</li></ul>

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#### Trend 402A-Z-EG-A

#### Aurora Tango Ethernet Tester

- Gigabit Ethernet Test Set
- Ethernet and IP Layer Testing to RFC-2544

Manufacturer	Product	Description
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## DATACOMMS NETWORK TESTING

Trend	402A-Z-EG-A	<b>Aurora Tango Ethernet Tester</b> <ul style="list-style-type: none"> <li>• Gigabit Ethernet Test Set</li> <li>• Ethernet and IP Layer Testing to RFC-2544</li> <li>• Simulate and Monitor Modes</li> </ul>
Agilent	N5541A	<b>N2X Network Performance Tester</b> <ul style="list-style-type: none"> <li>• Support for SONET/SDH. POS. ATM.</li> <li>• Ethernet. FR and Fibre Channel Interfaces</li> <li>• Time Synchronized to 10 ns</li> <li>• Requires additional Interface / Test Cards</li> </ul>



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DLI	NIC Plus+	<b>10GigE SONET/SDH Analyser</b> <ul style="list-style-type: none"> <li>• Modular SDH SONET Transmission Analyser</li> <li>• All Data rates from E12 through to STM-64</li> <li>• Ports for testing Ethernet 10/100, Gigabit &amp; 10GigE</li> </ul>
Navtel	01-105950A	<b>Interwatch M7 Portable Platform</b> <ul style="list-style-type: none"> <li>• Performance &amp; Verification System</li> <li>• Simultaneous support for multiple application</li> <li>• Multiport Traffic Generation at 100%</li> <li>• Real time 7 layer Protocol Analysis</li> </ul>

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