

Codeword Error 9%

UnEqualized MER 18%

Equalized MER 16%

Level Delta 0.4 dB

MicroReflection 8%

In-Band Response 2%

Group Delay 1%

Ingress Under Carrier 0%

Impulse Noise 27%

MAC Address: 00:18:9B:7A:84:95

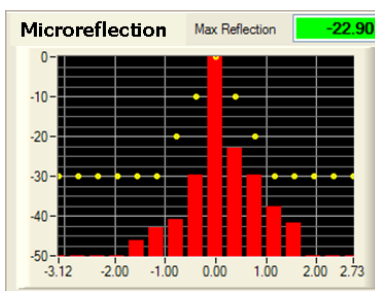
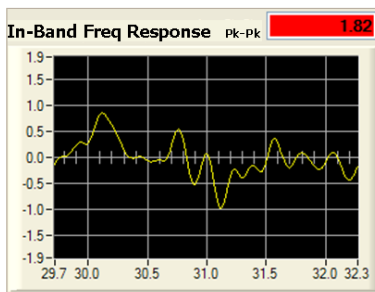
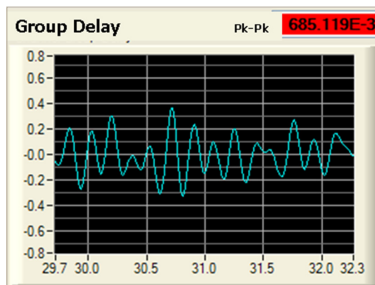
# PathTrak™ RPM3000 Enhancements

## Helps Solve Your Most Pressing Problems

**COMING SOON:** Improved tools from PathTrak that leverage the exclusive MACTrak Technology of the RPM3000 to demodulate live DOCSIS® packets and help you identify and localize HFC impairments.

The RPM3000 card will allow you to:

- Determine if a packet contains codeword errors and if so, why
- Know which impairments are corrupting data within customer modem packets
- Determine if linear impairments are present at the north and south test points of a tap
- Perform all of this using a simple dashboard format that your technicians can easily understand



These new troubleshooting features will be available to all nodes that RPM3000s monitor with the upcoming, free JDSU PathTrak Webview 2.5 upgrade for existing Webview servers.

- QAMTrak™ impairment dashboard immediately shows the impairments affecting carrier health in a simple red light/green light format that is easy for technicians to understand
- Provides the MAC address for each packet demodulated—localizes some impairments to the street address using available customer billing data
- Indicate whether a data within a customer packet is corrupted through codeword error detection
- Provides 32 QAM support
- Provides detailed packet-level information such as:
  - Equalized and unequalized MER
  - Correctable and uncorrectable codeword errors
  - Group delay
  - Microreflections
  - In-band frequency response (ripple)
  - Ingress under the carrier display and metric
  - Impulse noise indicator and metric
  - Constellation
  - Carrier-level fluctuation

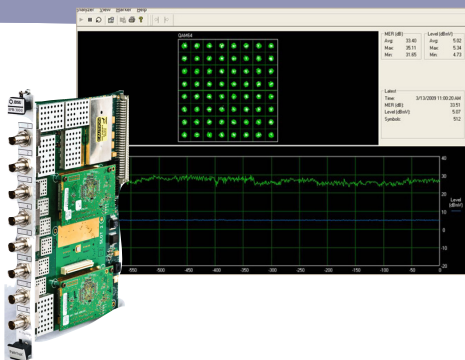
Localize difficult issues using a DSAM as a portable probe. View results from your DSAM's in-band packets or inserted out-of-band carrier from any field test point in real time using Webview.

Other complimentary systems poll modem and CMTS data every few hours to obtain aggregate statistics to flag nodes or modems. PathTrak provides complete information to aid technicians **in real time**. See instant results from the field when making repairs.



See the RPM3000 in action in the short QAMTrak demonstration video at <http://CATVsupport.com>.

# PathTrak RPM3000 Enhancements



## Key Features

- Unique QAMTrak™ Analyzer on every port demodulates bursty live DOCSIS upstreams
- Extended 500 kHz to 85 MHz frequency range
- 50 dB dynamic range to accommodate reduced noise floor common with 64 QAM upstreams
- Fully compatible with existing PathTrak gear
- Upgrade by exchange program allows cost-effective swap-out of older RPM1000/2000 cards for RPM3000s

## RPM3000 cards are ideal for:

### Splitting Nodes or Growing Systems

The incremental cost of adding an RPM3000 vs. an RPM2000 card is approximately \$100/port. Eliminating just one truck roll or reducing the time spent troubleshooting a node by a couple of hours just one time will cover this incremental cost.

### Adding Troubleshooting Capability at Each Hub

Adding just one RPM3000 card to each headend or hubsite enables quicker access to the troubleshooting capabilities offered through the RPM3000 when problems on in-service carriers arise. The few problem nodes that all hubsites have on occasion can be wired into the RPM3000 card for full-time access until chronic problems are resolved. Jumper the monitoring feed for other nodes with difficult problems as needed to maximize the in-service packet demodulation capability.

### Upgrading Return Path Toolset Capabilities

Now is the time to budget for upgrading your return path toolset in preparation for increased DOCSIS 3.0 penetration in your HFC network. The monitoring and troubleshooting techniques of the past are becoming less effective as open spectrum becomes filled with carriers. The upgrade by exchange program makes swapping out old cards for RPM3000s a simple, cost-effective upgrade solution.

## Ordering Information

### RPM Options

RPM3000F-port monitoring module with F connectors

RPM3000BNC-port monitoring module with BNC connectors

To learn more, call your local JDSU representative or visit [www.jdsu.com/Pathtrak](http://www.jdsu.com/Pathtrak) for more information.



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