



## Mobile Assurance

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Virtual Broadband Probe Processor (vBPP)  
TDM Probing Platform

## Low-Cost Probing for TDM Signaling

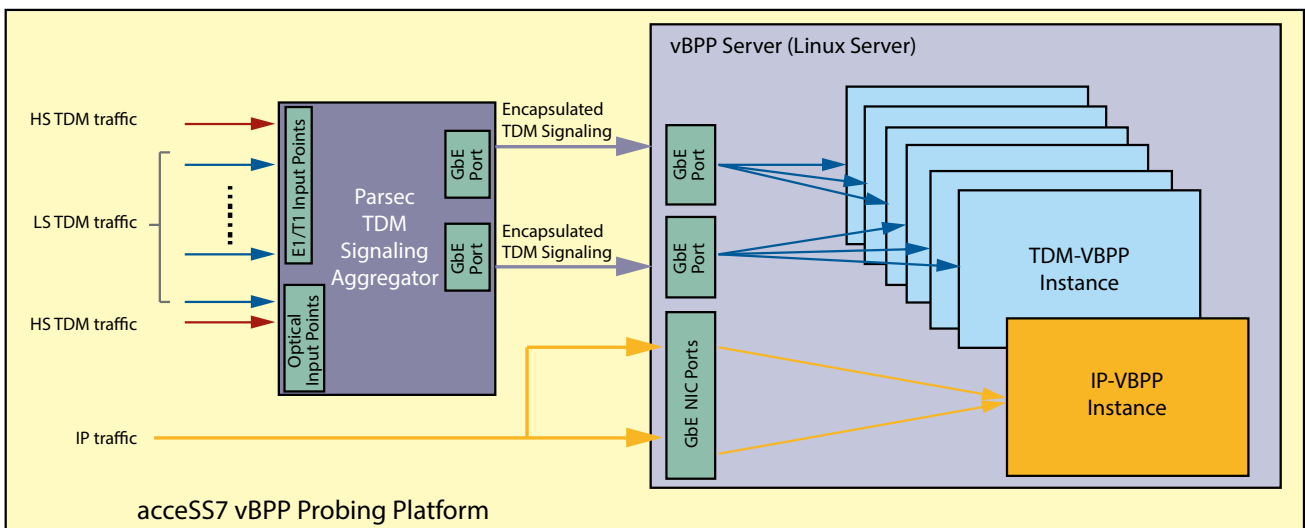
The JDSU virtual probing platform for control-plane signaling carried on TDM links consists of:

- A TDM link signaling aggregator (and converter to IP-based signaling) unit: the J8116A-001 Parsec™
- vBPP software residing on a standard COTS Linux server

The Parsec TDM signaling aggregator unit extracts the signaling from TDM link-traffic inputs and outputs this signaling on GE links to vBPP servers using a proprietary Ethernet frame format. A single Parsec unit can support up to 256 discrete E1/T1 and 4 STM1o/OC3 input ports and feed TDM signaling to up to 2 vBPP servers. The E1/T1 links are supplied via 8 68-pin SCSI-3 connectors, each supporting up to 32 E1/T1 inputs, while the optical inputs are supplied via Finisar® pluggable SFP transceivers.

## vBPP TDM Probing Platform Features

- Supports E1, T1, STM1o, and OC3 interfaces
- Rack mountable (19" or 23")
- Meets NEBS-3 specifications
- Hardware management via GbE and serial ports
- Integrated with acceSS7 system management tools
- Software runs on COTS server platforms
- Complements the acceSS7 vBPP IP link probing solution



## Specifications: J8116A-001 TDM Signaling Aggregator

Input x Qty	Connector	Protocol	Usage Notes
E1/T1 x 256	8 off: 68 pin SCSI-3	Q.703 over 64/56 kbps timeslot over E1/T1	LS SS7
		Frame relay (HDLC) over fractional E1/T1	GPRS Gb
		Q.2110 (SAAL-NNI) over ATM over full rate E1/T1	HS ATM E1/T1
		Q.703 Annex A over clear channel E1/T1	HS clear channel
STM1o/OC3 x 4 (155M Opt)	4 off: Finisar SFP transceiver FTLF1323P1BTL (1310 nm LR, -34 dBm receiver sensitivity and LC connectors)	Q.703 over 64/56 kbps timeslot E1/T1 (VC-11/12) over STM1o; or Q.703 over 64/56 kbps E1/T1 (VT-1.5/2) over OC3	LS SS7
		IP over ATM(AAL5) over STM1o/OC3	IuCS/IuPS
		Q.2110 (SAAL-NNI) over ATM over STM1o/OC3	
		Q.2110 (SAAL-NNI) over ATM over full E1/T1 over STM1o/OC3	

### Processing Capability (per parsec unit)

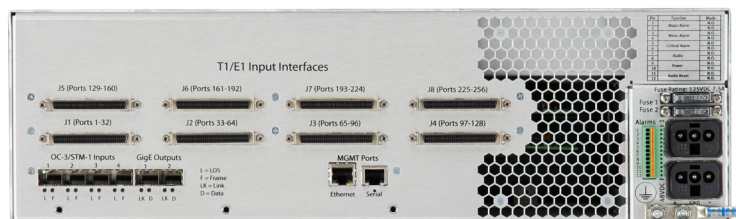
- LS links: up to 1024 links
- HS links: up to 592 T1 or 508 E1 links (from mix of physical inputs)
- In a mixed link configuration, each HS link removes capacity for 1 LS link

### Output Ports

- 2 x GbE ports, each via a Finisar FCLF8522P2BTL SFP transceiver with RJ-45 connectors and compliant to IEEE Standard 802.3

### Physical

- Rack-mount size: 3U (19" or 23"), NEBS-3
- Power: -48 V DC, <200 W, dual-redundant supplies
- Management: GbE and serial management ports, configuration and alarming integrated with acceSS7 management tools



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## Specifications: vBPP Software and Server

### vBPP Software License (J8115A-001)

- vBPP license is technology agnostic—can be used for IP or TDM probing
- Single vBPP TDM instance can process a mix of LS and HS signaling links
- Multiple vBPP TDM instances can process traffic from a single GbE input
- vBPP TDM support for acceSS7 platform components and applications:
  - Platform components: Link Discovery, ITF, Datastore, TDR-Store
  - Message-based apps: PA / KFE, CT, NI, TM, LSM, AMAT7-ITU
  - Feed-based apps: QoS, ST, CRMS, DMT, accessInsight DFE

### vBPP Server

- HP DL380 G8 box server or IBM HS23 blade server
- From 1 to 12 vBPP licenses per server, any mix of TDM and IP instances

### Processing Capability

- LS links: Up to 127 (full line rate) per vBPP instance
- HS links: Up to 16 T1/E1 per vBPP instance (T1 0.3, E1 0.25 max Erlang)

## Associated Solutions and Services

The vBPP TDM (and IP) probing platform is supported in the following JDSU mobile assurance solution:

- acceSS7 for GSM, GPRS, UMTS, MSS network, and service assurance.

A portfolio of professional services are available for JDSU Mobile Assurance solutions. S applicable to the vBPP probing platform include:

- Deployment — installation and commissioning
- Education — administrator training
- Consulting — configuration “health” reporting
- Support — support including software update service (SUS)

For more information on any of the above JDSU solutions and professional services, visit [www.jdsu.com](http://www.jdsu.com) or contact your JDSU sales representative.

## Network and Service Enablement Regional Sales

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