

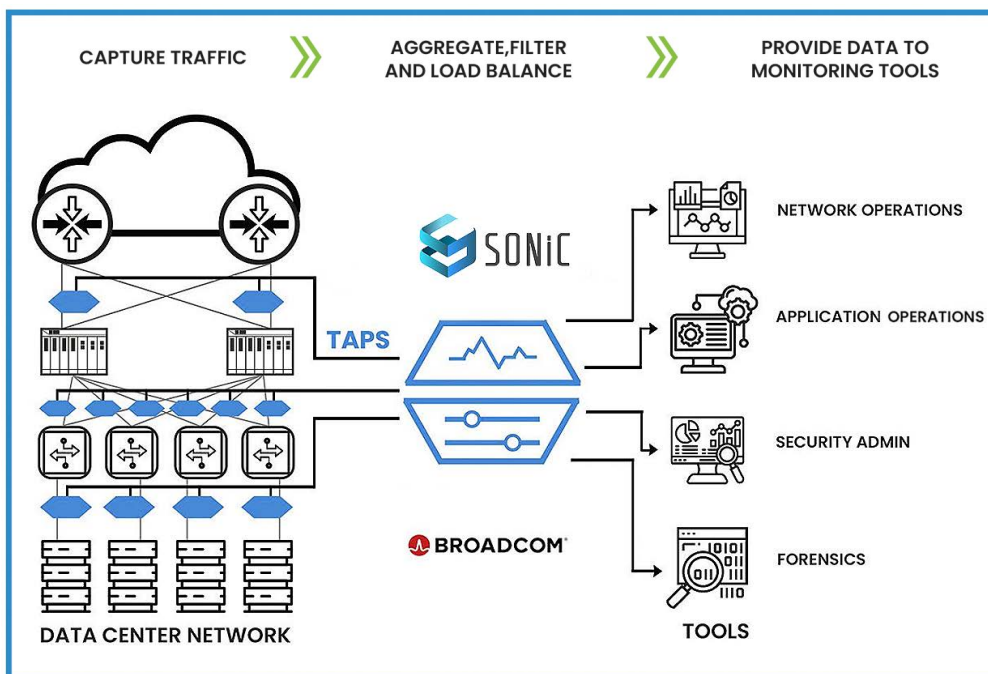


Disaggregated Network Packet Broker



Network visibility technology gives you detailed insights into everything in and circulating through your network. It is crucial to locate and fix network problems as they arise.

The new Disaggregated Open Packet Brokers are intended to accelerate the deployment of management, monitoring, and security tools, eliminate blind spots in conventional architectures and provide high-scale, multi-speed support, a comprehensive feature set, and a competitive total cost of ownership (TCO).



Highlights



Resiliency



Low Latency



Front to Back/
Back to Front Airflow



High Port Density

Key Features

- Cost-effective, open and disaggregated network packet broker
- Out-of-Band (OOB) deployment
- Comprehensive feature set including aggregation, replication, filtering, and load balancing
- Filtering: supporting multiple filters simultaneously
- Source port labeling (VLAN tagging & untagging)
- Support of IPv4 and IPv6
- Real-time port/packet statistics, SNMP alerts
- Management GUI web user interface, CLI, and Rest-API
- Supporting the functionality of multiple port speeds up to 64x400G
- Port breakout: 40G to 4x10G, 100G to 4x25G, 400G to 4x100G or 8x50G

DPB10C

48x10G RJ-45 + 6x40G ports



Ordering Information

Model	Type	Part Number	Description
DPB10C	KIT	DPB10C-48x10GC-F-AC	Disaggregated Packet Broker Kit, Open Switch 48x10G Copper ports F2B, AC PSU + DPB10C Software + 3Y M&S included
DPB10C	KIT	DPB10C-48x10GC-B-AC	Disaggregated Packet Broker Kit, Open Switch 48x10G Copper ports B2F, AC PSU + DPB10C Software + 3Y M&S included
DPB10C	KIT	DPB10C-48x10GC-F-DC	Disaggregated Packet Broker Kit, Open Switch 48x10G Copper ports F2B, DC PSU + DPB10C Software + 3Y M&S included
DPB10C	KIT	DPB10C-48x10GC-B-DC	Disaggregated Packet Broker Kit, Open Switch 48x10G Copper ports B2F, DC PSU + DPB10C Software + 3Y M&S included

Platform Description

Data Center Optimized Design

Switch Ports: 48 x RJ-45 copper each supporting 10G/1G. 6 x QSFP each supporting 40G or 4 x 10G

Management Ports: on Front Panel: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management

Performance

Switching Capacity: 720 Gbps Full Duplex

Forwarding Rate: 424.58 Mpps

Jumbo frames support up to 9216 Bytes

Packet Buffer Size: 16 MB integrated packet buffer

Power Supplies Specifications

PSUs: 2 redundant, load-sharing, hot-swappable AC or -48 VDC

Input Voltage: 90 to 264 VAC at 50-60 Hz. -48 to -72 VDC

Input Current: Max 6 A@100/120 VAC, 3 A@ 200/240 VAC, 10 A@ -72 VDC

Resilient Configuration

Switch Silicon: Broadcom BCM56864 Trident II+ 720G

CPU Modules: Intel® Atom® C2538 4-Core 2.4 GHz x86 processor

8 GB SO-DIMM DDR3 RAM with ECC

16 MB SPI NOR Flash



DPB25R

48x25G + 8x100G ports



Ordering Information

Model	Type	Part Number	Description
DPB25R	KIT	DPB25R-48x10G-F-AC	Disaggregated Packet Broker Kit, Open Switch 48x25G ports F2B, AC PSU + DPB25R Software +3y M&S included
DPB25R	KIT	DPB25R-48x10G-B-AC	Disaggregated Packet Broker Kit, Open Switch 48x25G ports B2F, AC PSU + DPB25R Software +3y M&S included
DPB25R	KIT	DPB25R-48x10G-F-DC	Disaggregated Packet Broker Kit, Open Switch 48x25G ports F2B, DC PSU + DPB25R Software +3y M&S included
DPB25R	KIT	DPB25R-48x10G-B-DC	Disaggregated Packet Broker Kit, Open Switch 48x25G ports B2F, DC PSU + DPB25R Software +3y M&S included

Platform Description

Data Center Optimized Design

Typical power of under 4W per 100G port and 1.5W per 25G port
Over 94% efficient power supplies
1+1 redundant & hot-swappable power supplies
3+1 redundant & hot-swappable fans
Support standard and reversed airflow
Tool-less maintenance and simple installation

Performance

8x QSFP28 100G ports & 48x SFP28 25G ports
Flexible support: 100G, 40G, 25G, and 10G
Up to 4.0 Tbps Full Duplex
Up to 2003.4 Mpps
Wire speed L2 and L3 forwarding
Latency from 814ns for 25G (cut-through mode)

Power Supplies Specifications

Input connector AC HVDC IEC 320-C14
Rated power: 550W
Input voltage range: 100-240 VAC
Frequency: 50-60 Hz
Typical input current: 7.2 - 3.5A
Input high-voltage: 240 VDC
Input current: 3.6A (DC)

Resilient Configuration

Broadcom BCM56873 (Trident 3)
IntelXeonD-1527 processor
8GB DRAM
System storage \geq 240GB

DPB100E

32x100G ports



Ordering Information

Model	Type	Part Number	Description
DPB100E	KIT	DPB100E-32x100G-F-AC	Disaggregated Packet Broker Kit, Open Switch 32x100G ports F2B, AC PSU + DPB100E Software + 3Y M&S included
DPB100E	KIT	DPB100E-32x100G-B-AC	Disaggregated Packet Broker Kit, Open Switch 32x100G ports B2F, AC PSU + DPB100E Software + 3Y M&S included
DPB100E	KIT	DPB100E-32x100G-F-DC	Disaggregated Packet Broker Kit, Open Switch 32x100G ports F2B, DC PSU + DPB100E Software + 3Y M&S included
DPB100E	KIT	DPB100E-32x100G-B-DC	Disaggregated Packet Broker Kit, Open Switch 32x100G ports B2F, DC PSU + DPB100E Software + 3Y M&S included

Platform Description

Data Center Optimized Design

Switch Ports: 32 x 100G QSFP28 each supporting 40G or 4 x 10G, 100G or 4 x 25G

Management Ports: on Front Panel: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management

Performance

3.2 Tbsp Full Duplex

Forwarding Rate: 1.52 Bpps

Jumbo frames support up to 9216 Bytes

Power Supplies Specifications

Input Voltage: 90 to 240 VAC at 50-60 Hz. -36 to -72 VDC

Redundant Hot swappable power supplies

Redundant Hot swappable FANs

Resilient Configuration

Switch Silicon: Broadcom BCM56960 Tomahawk

CPU Modules: Intel Atom C-2538 processor

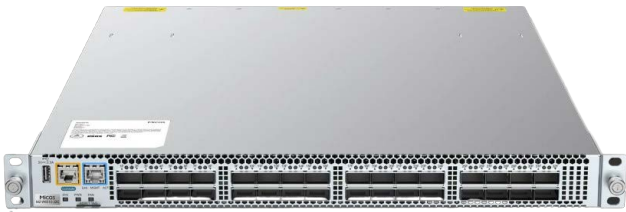
8 GB SO-DIMM DDR3 RAM with ECC

64 MB SPI NOR Flash system storage

16 GB Packet buffers

DPB100R

32x100G ports



Ordering Information

Model	Type	Part Number	Description
DPB100R	KIT	DPB100R-32x100G-F-AC	Disaggregated Packet Broker Kit, Open Switch 32x100G ports F2B, AC PSU + DPB100R Software + 3Y M&S included
DPB100R	KIT	DPB100R-32x100G-F-DC	Disaggregated Packet Broker Kit, Open Switch 32x100G ports F2B, DC PSU + DPB100R Software + 3Y M&S included
DPB100R	KIT	DPB100R-32x100G-B-AC	Disaggregated Packet Broker Kit, Open Switch 32x100G ports B2F, AC PSU + DPB100R Software + 3Y M&S included
DPB100R	KIT	DPB100R-32x100G-B-DC	Disaggregated Packet Broker Kit, Open Switch 32x100G ports B2F, DC PSU + DPB100R Software + 3Y M&S included

Platform Description

Data Center Optimized Design

Switch Ports: 32 x 100G QSFP28 each supporting 40G or 4 x 10G, 100G or 4 x 25G

Management Ports: on Front Panel: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management

Performance

Switching Capacity: 3.2 Tbsp Full Duplex

Forwarding Rate: 2.0 Bpps

Jumbo frames support up to 9216 Bytes

Power Supplies Specifications

Rated voltage range: 100–240 VAC

Maximum voltage range: 90–264 VAC

Frequency: 50–60 Hz

Input voltage range: 180-300 VDC

Rated input voltage: 240 VDC

Resilient Configuration

Switch Silicon: Broadcom BCM TD3

CPU Modules: Intel Xeon D-1527 processor

8 GB SO-DIMM DDR3 RAM with ECC

240 MB SPI NOR Flash system storage

32 GB Packet buffers

DPB100+E

64x100G ports



Ordering Information

Model	Type	Part Number	Description
DPB100+E	KIT	DPB100+E-64x100G-F-AC	Disaggregated Packet Broker Kit, Open Switch 64x100G ports F2B, AC PSU + DPB100+E Software + 3Y M&S included
DPB100+E	KIT	DPB100+E-64x100G-B-AC	Disaggregated Packet Broker Kit, Open Switch 64x100G ports B2F, AC PSU + DPB100+E Software + 3Y M&S included
DPB100+E	KIT	DPB100+E-64x100G-F-DC	Disaggregated Packet Broker Kit, Open Switch 64x100G ports F2B, DC PSU + DPB100+E Software + 3Y M&S included
DPB100+E	KIT	DPB100+E-64x100G-B-DC	Disaggregated Packet Broker Kit, Open Switch 64x100G ports B2F, DC PSU + DPB100+E Software + 3Y M&S included

Platform Description

Data Center Optimized Design

Switch Ports: 64 x 100G QSFP28 each supporting 40G or 4 x 10G, 100G or 4 x 25G

Management Ports: on Front Panel: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management

Performance

Switching Capacity: 6.4 Tbsp Full Duplex

Forwarding Rate: 4.2 Bpps

Jumbo frames support up to 9216 Bytes

Power Supplies Specifications

Input Voltage: 90 to 240 VAC at 50-60 Hz. -36 to -72 VDC

Redundant Hot swappable power supplies

Redundant Hot swappable FANS

Resilient Configuration

Switch Silicon: Broadcom BCM Tomahawk II

CPU Modules: Intel Xeon D-1518 processor

8 GB SO-DIMM DDR4 RAM with ECC

16 MB SPI NOR Flash system storage

42 GB Packet buffers



DPB400E

32x400G ports



Ordering Information

Model	Type	Part Number	Description
DPB400E	KIT	DPB400E-32x400G-F-AC	Disaggregated Packet Broker Kit, Open Switch 32x400G ports F2B, AC PSU + DPB400E Software + 3Y M&S included
DPB400E	KIT	DPB400E-32x400G-B-AC	Disaggregated Packet Broker Kit, Open Switch 32x400G ports B2F, AC PSU + DPB400E Software + 3Y M&S included

Platform Description

Data Center Optimized Design

Switch Ports: 32 x 400G QSFP28 supporting 400G or 4 x 100G

Management Ports: on Front Panel: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management

Performance

Switching Capacity: 12.8 Tbsp Full Duplex

Forwarding Rate: 5.21 Bpps

Jumbo frames support up to 9216 Bytes

Power Supplies Specifications

Rated voltage range: 100–240 VAC

Maximum voltage range: 90–264 VAC

Frequency: 50–60 Hz

Input voltage: 100~240 VAC at 50-60 Hz

Redundant load sharing hot swappable power supplies

Redundant Fans

Resilient Configuration

Switch Silicon: Broadcom BCM TMHK3

CPU Modules: Intel Xeon D-1518 processor

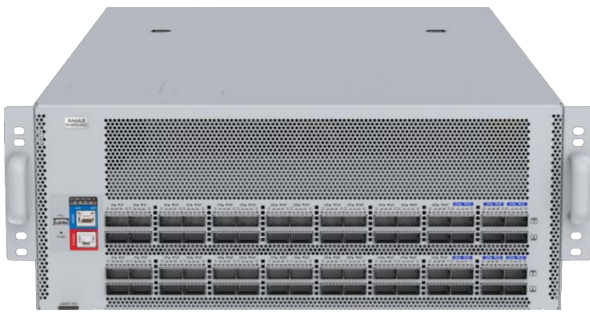
16 GB SO-DIMM DDR3 RAM with ECC

32 MB SPI NOR Flash system storage

64 GB Packet buffers

DPB400+R

64x400G ports



Ordering Information

Model	Type	Part Number	Description
DPB400+R	KIT	DPB400+R-64x400G-F-AC	Disaggregated Packet Broker Kit, Open Switch 64x400G ports F2B, AC PSU + DPB400+R Software + 3Y M&S included
DPB400+R	KIT	DPB400+R-64x400G-F-DC	Disaggregated Packet Broker Kit, Open Switch 64x400G ports F2B, DC PSU + DPB400+R Software + 3Y M&S included

Platform Description

Data Center Optimized Design

Switch Ports: 64 x 400G QSFP28 supporting 400G or 4 x 100G

Management Ports: on Front Panel: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management

Performance

Switching Capacity: 51.2 Tbsp Full Duplex

Forwarding Rate: 10.6 Bpps

Jumbo frames support up to 9216 Bytes

Power Supplies Specifications

Input Voltage: 100-240V AC - 180-310V DC

Input Current: 12-7A (AC) 6A (DC) 50~60Hz

Input Connector: IEC 320-C13

2+2 Redundant power supplies

7+1 Redundant fans

Resilient Configuration

Switch Silicon: Broadcom BCM TMHK4

CPU Modules: Intel Xeon D-1627 processor

16 GB SO-DIMM DDR3 RAM with ECC

240 MB SPI NOR Flash system storage

113.66 GB Packet buffers



Product Matrix

ECIN P/N	DPB10C	DPB25R	DPB100E	DPB100R	DPB100+E	DPB400E	DPB400+R
	Base-T	SFP	QSFP28	QSFP28	QSFP28	QSFP-DD	QSFP-DD
Port							
1G	48 copper	48	0	0	0	0	0
10G	24 with Breakout	48 (+32 with Breakout)	128 with Breakout	128 with Breakout	256 with Breakout	0	0
25G	0	48 (+32 with Breakout)	128 with Breakout	128 with Breakout	256 with Breakout	128	0
40G	6	8	32	32	64	0	0
100G	0	8	32	32	64	128	0
400G	0	0	0	0	0	32	64
400G ZR/ZR+							16
Managemnt OOB	1	1	1	1	1	1	1
Console RJ45 serial	1	1	1	1	1	1	1
USB2.0	1	1	1	1	1	1	1
switching capacity	720Gbps	2.56 Tbps	3.2Tbps	3.2Tbps	6.4 Tbps	12.8 Tbps (Full Duplex)	51.2 Tbps
Packet forwarding	424 Mpps	1920 Mpps	1.52 Bpps	2003.4Mpps	1.52 Bpps	5.21 Bpps	10.6 Bpps
Vlans	4K	4K	4K	4K	4K	4K	4K
Chipset	BCM TD2	BCM TD3	BCM TMH2 (56960)	BCM TD3 (56870)	BCM TMH2	BCM TMH3 (56980)	BCM TMH4 (56990)
CPU	Intel Atom-C2538	CN7130-1200w	Intel Atom-C2538	Intel Xeon D-1527	Intel Xeon-D1518	Intel Xeon D-1548	Intel Xeon D-1627
System memory	8GB	4GB	8GB	8GB	8G	16 GB	16GB
System storage	8GB	16GB	64GB	240GB	64GB	32 GB	240GB
Packet buffer	16MB	32MB	16MB	32MB	16MB	64 MB	113.66 MB
Power supplies	1+1R	1+1R	1+1R	1+1R	1+1R	1+1R	2+2R
Input Voltage	AC/DC	AC/DC	AC/DC	AC/DC	AC/DC	AC	AC/DC
Fans	4+1R	3+1R	5+1R	4+1R	3+1R	5+1R	7+1R
Air Flow	F2B/B2F	F2B/B2F	F2B/B2F	F2B/B2F	F2B/B2F	F2B/B2F	F2B
OS	SONIC	SONIC	SONIC	SONIC	SONIC	SONIC	SONIC
Max Power consumption	348W	300W	550W	450W	550W	2100W	2500W
Dimensions inches	18.6x17.4x1.71 in.	17.4x15.24x1.73 in.	17.3x20.3x1.7 in.	17.4x22.04x1.73 in	17.3x20.3x1.7 in.	17.25x21.1x1.69 in	17.4x6.89x29.92 in
Dimensions mm	473x442x44 mm	442x387x44 mm	438x515x44 mm	442x560x44 mm	438x515x44 mm	43.84x53.6x4.31	442x175x760
Weight	21 lb	17.64 lb (8Kg)	24 lb	22.7 lb (10.3 Kg)	24 lb	24.38 lb (11.6 Kg)	96 lb (42 Kg)
Regulatory							
Emission	FCC Part 15 Class A VCCI	FCC CFR Title 47, Part 15, Subpart B, ANSI C63.4-2014 IC Regulation ICES-003: Issue 7	CE Mark EN 55022 Class A EN 55024 EN 61000-3-2 EN 61000-3-3 FCC Part 15 Subpart B Class A VCCI Class A	FCC CFR Title 47, Part 15, Subpart B, ANSI C63.4-2014 IC Regulation ICES-003: Issue 7	CE Mark EN 55032 AS/NZS CISPR 32 EN 55024 EN 61000 3-2 EN 61000 3-3 CISPR 32 FCC Part 15 Subpart B Class A VCCI Class A	EN 55032 Class A EN 61000-3-2 EN 61000-3-3 VCCI-CISPR 32 Class A AS/NZS CISPR 32 Class A ICES-003 Issue 7 Class A FCC Class A EN 55035 IEC 61000-4- 2/3/4/5/6/8/11	Emissions: FCC part15 Subpart B, EN55032, EN61000-3-2, EN61000- 3-3 or EN61000-3-11, EN61000-3-12 (as applicable) Immunity: EN55035 Emissions and Immunity: EN300386
Safety	UL/CUL	ANSI/UL 62368-1 CAN/CSA C22.2 No. 62368-1	CB UL/CUL	ANSI/UL 62368-1, CAN/CSA C22.2 No. 62368-1	CB UL	UL (CSA 22.2 No 62368-1 & UL62368- 1) CB (IEC/EN60950-1 & IEC/EN 62368-1)	UL/CSA 62368-1, EN 62368-1, IEC 62368-1 CB Scheme with all country differences
Certification	IEC 68-2-14 Vibration: IEC 68-2-6 Shock: IEC 68-2-29	FCC; IC; ETL	Temperature: IEC 68-2- 14 Vibration: IEC 68-2-36, IEC 68-2-6 Shock: IEC 68-2-29 Drop: ISTA 2A	FCC; IC; ETL	GR63-CORE (Pre-test)	GR63-CORE (Pre-test)	North America (NRTL) European Union (EU) BSMI (Taiwan) C-Tick (Australia) CCC (PRC) MSIP (Korea) EAC (Customs Union) VCCI (Japan)
European Union Directive	RoHS-6 Compliant	Country of origin: Malaysia	RoHS-6 Compliant Country of Origin: Taiwan (TAA Compliant)	Country of Rigin : Malaysia	RoHS-6 Compliant Country of Origin: Taiwan (TAA Compliant) Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)	RoHS-2.0 Compliant Electrical and Electronic Equipment (WEEE Directive 2002/96/EC)	2006/95/EC Low Voltage Directive 2004/108/EC EMC Directive 2011/65/EU RoHS Directive



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