



CPRIAdvisor CAP-100 / CAE-100

CPRIAdvisor Probe and Expansion Modules Specifications

Introduction

Viavi CPRIAdvisor is the optimal spectrum monitoring system for mobile operators, NEMs, and contractors performing radio access network (RAN) maintenance such as interference analysis and PIM detection. CPRIAdvisor enables users to dramatically improve operational efficiency by automatically diagnosing the root cause of problems in the RAN.

CPRIAdvisor adapts to any type of cell site, from a macro-cell with multiple bands and sectors, capable of performing RF over fiber (RToFiber) monitoring of up to 16 fiber links, to distributed antenna systems or centralized radio access network (C-RAN) topologies with hundreds of sectors, capable of performing RToFiber monitoring of up to 576 fiber links.

CPRIAdvisor comprises three main elements: CPRIAdvisor probe (CAP-100), CPRIAdvisor expansion module (CAE-100), and CPRIAdvisor manager (CAM-100)

The following diagram is a front view of the CAP-100 and CAE-100. CPRIAdvisor probe (CAP-100) can control up to 16 expansion modules (CAE-100) to expand the measurement port density to up to 576 fiber ports.

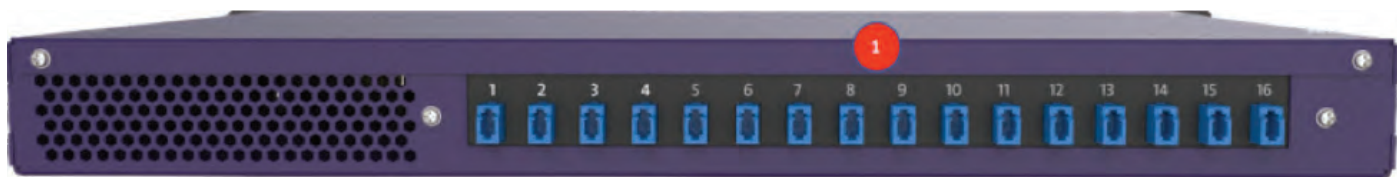


Item	Name	Description
1	Reset	Hard reset key of CPRIAdvisor probe
2	Ext Ctrl	Port to control expansion modules
3	Serial	Serial port to enable maintenance setup
4	LAN	Ethernet port to enable network connectivity to CPRIAdvisor manager
5	USB Client	Serial port to enable direct connectivity to CPRIAdvisor manager
6	USB Host	Serial port to enable external memory storage
7	Status	Indicator showing the operational status of the CPRIAdvisor probe
8		Ground connection for frame ground
9	Power	DC power connector
10		Power switch CPRIAdvisor's probe



Item	Name	Description
1	Reset	Hard reset key of CPRIAdvisor probe
2	Ctrl Out	Port to communicate with CPRIAdvisor expansion modules
3	Ctrl In	Port to communicate with CPRIAdvisor probe or expansion module
4	ID No	Identifier for the CPRIAdvisor expansion module
5	Service	Port to enable maintenance for CPRIAdvisor expansion module
6	Reset	Hard reset key of CPRIAdvisor expansion module
7		Ground connection for frame ground

The following diagram is a rear view of the CAP-100 and CAE-100.

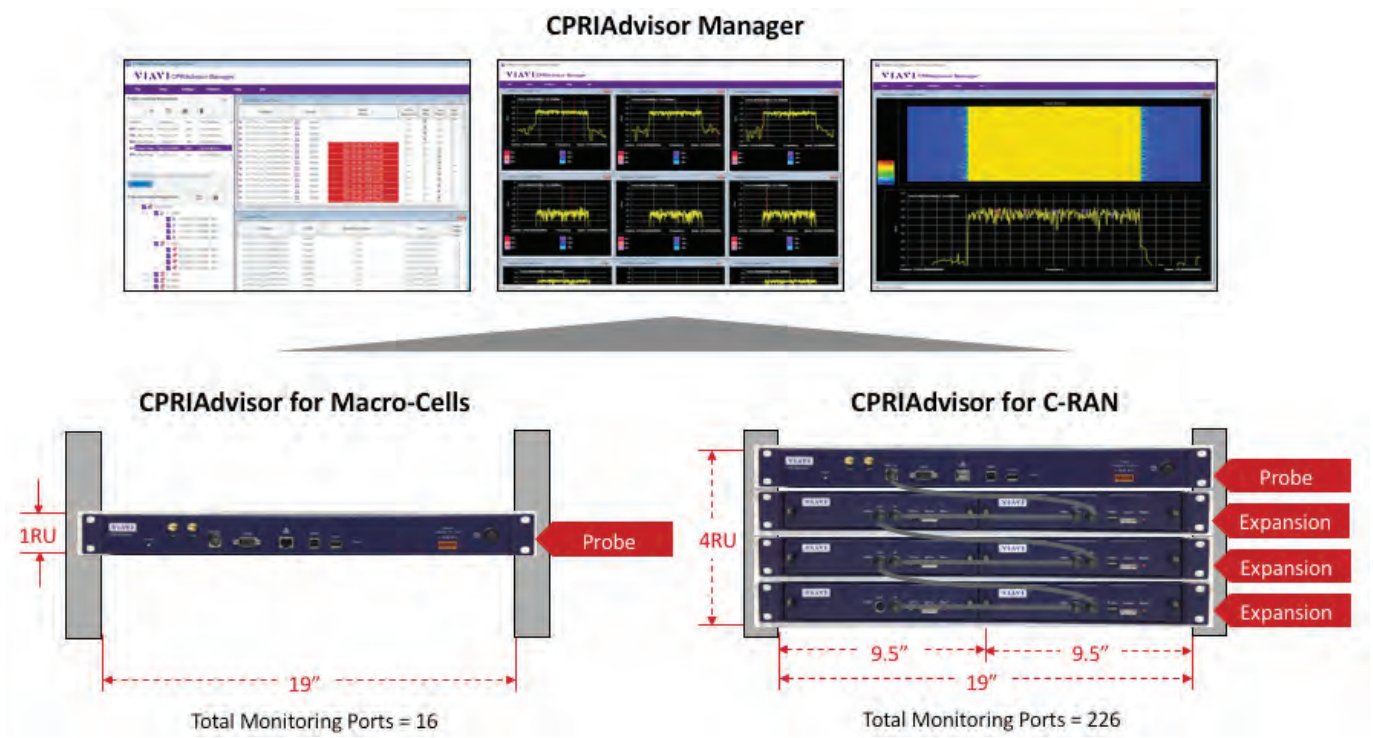


Item	Name	Description
1	1 to 16	Optical LC ports of CPRIAdvisor probe for RFoFiber links under test



Item	Name	Description
1	COM	Optical LC port common output of the expansion module
2	1 to 36	Optical LC ports of CPRIAdvisor expansion module for RFoFiber links under test

The following diagram illustrates an example of CPRIAdvisor manager (CAM-100).



Features and Specifications

Highlights and capabilities

- Offers high visibility of RF spectrum anytime and anywhere
- Significantly reduces maintenance costs
- Improves quality of mobile services
- Proactively detects internal or external RF interference

General specifications

CPRIAdvisor probe (CAP-100) specifications

Items		Description
Mechanical	Height	1 rack unit (RU)
	Width	434 mm (17.1 in)
	Depth	341.5 mm (13.5 in)
	Weight	3.1 kg (6.9 lbs.)
Optical Input power range		-24 to -4dBm
CPRI Link Rate		Up to 4.9 Gbps (9.8 Gbps upgradeable)
OBSAI Link Rate		Up to 3.1 Gbps (6.1 Gbps upgradeable)
IO Interface	Optical Input	16 LC ports
	USB Host Port	Type A
	USB client Port	Type B
	LAN Interface	1 RJ45 connectors for 10/100 Mbit/s
	Serial	1 DSUB-9 port
	Bi-Color LED	Device Status display
	Reset Button	1
	Expansion Control port	DIN type, Daisy Chain
	10MHz Ref. Input	Frequency reference
	GSP Ant	Frequency reference
Power Supply	Input Voltage	-48 V
	Power consumption	72 Watt
Environmental	Operating	0°C to 40°C
	Storage	-20°C to 60°C
	Humidity	5% to 95% without condensation
	EMI/ESD	CE Compliant - Class A (EN61326)
		CISPR11
		IEC/EN 61000-4-2
	Safety(LVD)	EN 61010-1
	TUV-NRTL	UL61010-1:2012
		CAN/CSA C22.2 No. 61010-1:2012
	Vibration	5-500-5Hz, 1mm amplitude, 1G
	Shock	15G, half-sine, 11ms, 6 axes
	Inflammability	The Probe's metallic housing does not propagate fire

CPRIAdvisor expansion module (CAE-100) specifications

Items		Description
Mechanical	Height	1 rack unit (RU)
	Width	210 mm (8.3 in)
	Depth	340 mm (13.4 in)
	Weight	1 kg (2.2 lbs.)
IO Interface	Optical Input	36 LC ports
	Optical Output	1 LC port
	Status LED	Device Status display
	Reset Button	1
	Control port	1 DIN connector for slave link 1 DIN connector for master link
	DIP Switch	Expansion module identifier
Environmental	Operating	0°C to 40°C (operating, temperature range)
	Storage	-20°C to 60°C
	Humidity	5% to 95% without condensation
	EMI/ESD	CE Compliant - Class A (EN61326)
		CISPR11
		IEC/EN 61000-4-2
	Safety(LVD)	EN 61010-1
	TUV-NRTL	UL61010-1:2012
		CAN/CSA C22.2 No. 61010-1:2012
	Vibration	5-500-5Hz, 1mm amplitude, 1G
	Shock	15G, half-sine, 11ms, 6 axes
	Inflammability	The Probe's metallic housing does not propagate fire

Optional Accessories

Items	Description
CAP-0200	19-inch 1U Shelf for CPRIAdvisor Expansion
CAP-0210	16x LC to MPO 1.5m cable with MPO adapter panel
CAP-0220	36x LC to MOP 1.5m cable with MPO adapter panel
THDOC24	High-Density Optical TAP Chassis
THDOT-SM-LC-55-K	10 Gb Optical nTAP Module, SM, LC, 50/50
THDOT-SM-LC-64-K	10 Gb Optical nTAP Module, SM, LC, 60/40
THDOT-SM-LC-73-K	10 Gb Optical nTAP Module, SM, LC, 70/30



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