

CMA5000a

Multi Layer Network Platform

Mainframe and Module Configuration Guide

This guide describes possible combinations of the CMA5000a mainframe and modules.



The all-in-one CMA5000a Multi Layer Network Platform supports cost-effective network installation and maintenance measurements.

Mainframe

There are two models of CMA5000a mainframe—the SBA (Single Bay Adapter), and the MBA (Medium Bay Adapter), each offering different numbers of bays as shown below.



SBA (2 bays)



MBA (4 bays)



Measurement Modules

Various modules for testing the physical and transport layers can be simultaneously installed in the CMA5000a.



Measurement Modules

Popular Name	Bay	Product Number	Description
ORL or Test Fiber	1	520-ORL-XX OPTION-55X-TFMXX	High-accuracy location of optical fiber breaks
OTDR	1	52XX-000-OTDR-XXX	Reflection measurement showing cut or bend of optical fibers
CD-OTDR	1	5302-21-CDOTDR-XXX	Chromatic dispersion measurement
GigE-II	1	5710-000-GIGE	Transmission quality measurement for 10, 100 and Gigabit Ethernet
GigE	2	5700-000-GIGE	Transmission quality measurement for 10, 100 and Gigabit Ethernet
10 GigE	2	5800-000-10GIGE	Transmission quality measurement for 10 Gigabit Ethernet
UTA	2	5610-000-UTA	Transmission quality measurement for 10 Gigabit Ethernet, 156M to 10G SDH/SONET and OTU1/2
2.5G XTA	2	5616-000-XTA	Transmission quality measurement for 1.5M to 2.5G PDH/SDH/SONET
10G XTA	2	566X-000-XTA	Transmission quality measurement for 1.5M to 10G PDH/SDH/SONET
622M XTA J&W	2	5604-000-XTA	Transmission quality measurement for 1.5M to 622M PDH/SDH/SONET including jitter and wander
2.5G XTA J&W	2	5616-301-XTA or 5616-311-XTA	1.5M to 2.5G Jitter wander measurement
2.5G XTA NGN	2	5616-601-XTA or 5616-611-XTA	156M to 2.5G GFP, LCAS, VCAT
OSA 400/425	4	55XX-X00-OSA-XXX	Optical spectrum measurement
PMD 160	4	5400-001-PMD-XX	Polarization mode dispersion measurement

Available Configurations

The charts below describe available configurations for mainframes (SBA and MBA) and measurement modules.

CMA5000a One-Module Configuration

Note	Supported Models
ALL	All models
S-2	SBA with an additional battery (5000A-BATT) MBA
M	MBA
NO	Not supported

Module	(Alone)
ORL or Test Fiber	ALL
OTDR	ALL
CD-OTDR	ALL
GigE-II	ALL
GigE	ALL
10 GigE	ALL
UTA	ALL
2.5G XTA	ALL
10G XTA	S-2
622M XTA J&W	S-2
2.5G XTA J&W	S-2
2.5G XTA NGN	S-2
OSA 400/425	M
PMD 160	M

CMA5000a Two-Module Configuration

Module	ORL or Test Fiber	OTDR	CD-OTDR	GigE-II	GigE	10 GigE	UTA	2.5G XTA	10G XTA	622M XTA J&W	2.5G XTA J&W	2.5G XTA NGN
ORL or Test Fiber	ALL	ALL	ALL	ALL	M	M	M	M	M	M	M	M
OTDR	ALL	ALL	S-2	ALL	M	M	M	M	M	M	M	M
CD-OTDR	ALL	S-2	S-2	ALL	M	M	M	M	M	M	M	M
GigE-II	ALL	ALL	ALL	ALL	M	M	M	M	M	M	M	M
GigE	M	M	M	M	M	M	M	M	M	M	M	M
10 GigE	M	M	M	M	M	M	M	M	M	M	M	M
UTA	M	M	M	M	M	M	M	M	M	M	M	M
2.5G XTA	M	M	M	M	M	M	M	M	M	M	M	M
10G XTA	M	M	M	M	M	M	M	M	M	M	M	M
622M XTA J&W	M	M	M	M	M	M	M	M	M	NO	NO	NO
2.5G XTA J&W	M	M	M	M	M	M	M	M	M	NO	NO	NO
2.5G XTA NGN	M	M	M	M	M	M	M	M	M	NO	NO	M

CMA5000a Three-Module Configuration

Module		ORL or Test Fiber	OTDR	CD-OTDR	GigE-II	GigE	10 GigE	UTA	2.5G XTA	10G XTA	622M XTA J&W	2.5G XTA J&W	2.5G XTA NGN
ORL or Test Fiber	ORL or Test Fiber	M	M	M	M	M	M	M	M	M	M	M	M
ORL or Test Fiber	OTDR	M	M	M	M	M	M	M	M	M	M	M	M
ORL or Test Fiber	CD-OTDR	M	M	M	M	M	M	M	M	M	M	M	M
ORL or Test Fiber	GigE-II	M	M	M	M	M	M	M	M	M	M	M	M
OTDR	OTDR	M	M	M	M	M	M	M	M	M	M	M	M
OTDR	CD-OTDR	M	M	M	M	M	M	M	M	M	M	M	M
OTDR	GigE-II	M	M	M	M	M	M	M	M	M	M	M	M
CD-OTDR	CD-OTDR	M	M	M	M	M	M	M	M	M	M	M	M
CD-OTDR	GigE-II	M	M	M	M	M	M	M	M	M	M	M	M
GigE-II	GigE-II	M	M	M	M	M	M	M	M	M	M	M	M

CMA5000a Four-Module Configuration

Module		ORL or Test Fiber	ORL or Test Fiber	ORL or Test Fiber	ORL or Test Fiber	OTDR	OTDR	OTDR	CD-OTDR	CD-OTDR	GigE-II
		ORL or Test Fiber	OTDR	CD-OTDR	GigE-II	OTDR	CD-OTDR	GigE-II	CD-OTDR	GigE-II	GigE-II
ORL or Test Fiber	ORL or Test Fiber	M	M	M	M	M	M	M	M	M	M
ORL or Test Fiber	OTDR	M	M	M	M	M	M	M	M	M	M
ORL or Test Fiber	CD-OTDR	M	M	M	M	M	M	M	M	M	M
ORL or Test Fiber	GigE-II	M	M	M	M	M	M	M	M	M	M
OTDR	OTDR	M	M	M	M	M	M	M	M	M	M
OTDR	CD-OTDR	M	M	M	M	M	M	M	M	M	M
OTDR	GigE-II	M	M	M	M	M	M	M	M	M	M
CD-OTDR	CD-OTDR	M	M	M	M	M	M	M	M	M	M
CD-OTDR	GigE-II	M	M	M	M	M	M	M	M	M	M
GigE-II	GigE-II	M	M	M	M	M	M	M	M	M	M