VIAVI
CellAdvisor™

JD786B RF Analyzer

Spectrum Analyzer (standard)

Frequency		
Frequency range	9 kHz to 8 GHz	
Frequency accuracy	± (Readout frequency x Internal 10MHz Frequency reference accuracy + RBW centering + 2 Hz + 0.5 x Horizontal resolution)	
Internal 10 MHz Frequency Reference		
Accuracy	±0.05 ppm + aging (0 to 50°C) ±0.01 ppm, after 15 minutes of GPS Lock (0 to 50°C)	
Aging	±0.5 ppm/year	
Frequency Span		
Range	0 Hz (zero span) 10 Hz to 8 GHz	
Resolution	1 Hz	
Resolution Bandwidth (RBW)		
−3 dB bandwidth	1 Hz to 3 MHz	1-3-10 sequence
Accuracy	±10% (nominal)	
Video Bandwidth (VBW)		
−3 dB bandwidth	1 Hz to 3 MHz	1-3-10 sequence
Accuracy	±10% (nominal)	
Single Sideband (SSB) Phase Noise		
Fc 1 GHz, RBW 10 kHz, VBW 1 kHz, RMS detector		
Carrier Offset: 30 kHz 100 kHz 1 MHz	−100 dBc/Hz (−102 dBc/Hz, typical) −105 dBc/Hz (−112 dBc/Hz, typical) −115 dBc/Hz (−120 dBc/Hz, typical)	
Measurement Range		
	DANL to +25 dBm	
Input attenuator range	0 to 55 dB, 5 dB steps	
Maximum Input Level		
Average continuous power	+25 dBm	
DC voltage	±50 V DC	

*All specifications are subject to change without notice.

Spectrum Analyzer: 9 kHz to 8 GHz

Cable and Antenna Analyzer: 5 MHz to 6 GHz

Power Meter: 10 MHz to 8 GHz

Specification* Conditions

The JD786B specifications apply under these conditions:

- The instrument has been turned on for at least 15 minutes
- The instrument is operating within a valid calibration period
- Data with no tolerance are considered typical values
- Cable and antenna measurements apply after calibration to the OSL standard
- Typical and nominal values are defined as:
  - Typical: expected performance of the instrument operating at 20 to 30°C after being at this temperature for 15 minutes
  - Nominal: a general, descriptive term or parameter

Displayed Average Noise Level (DANL)

1 Hz RBW, 1 Hz VBW, 50 Ω termination, 0 dB attenuation, RMS detector

Preamplifier Off	
10 MHz to 2.4 GHz	−140 dBm (−145 dBm, typical)
>2.4 GHz to 6 GHz	−136 dBm (−140 dBm, typical)
>6 GHz to 7 GHz	−134 dBm (−138 dBm, typical)
>7 GHz to 8 GHz	−128 dBm (−134 dBm, typical)
Preamplifier On	
10 MHz to 3 GHz	−160 dBm (−165 dBm, typical)
>3 GHz to 5 GHz	−158 dBm (−162 dBm, typical)
>5 GHz to 7 GHz	−155 dBm (−158 dBm, typical)
>7 GHz to 8 GHz	−150 dBm (−155 dBm, typical)

Display Range

Log scale and units (10 divisions displayed)	1 to 20 dB/division in 1 dB steps dBm, dBV, dBmV, dBμV
Linear scale and units (10 divisions displayed)	V, mV, mW, W
Detectors	Normal, positive peak, sample, negative peak, RMS
Number of traces	6
Trace functions	Clear/write, maximum hold, minimum hold, capture, load view on/off

Total Absolute Amplitude Accuracy

Preamplifier off, power level >−50 dBm, auto-coupled

1 MHz to 8 GHz	±1.3 dB (±0.5 dB typical)	20 to 30°C after 60-minute warm up
	Add ±1.0 dB	−10 to 55°C after 60-minute warm up

Reference Level

Setting range	−120 to +100 dBm
Setting Resolution Log scale Linear scale	0.1 dB 1% of reference level

Markers

Marker types	Normal, delta, delta pair, noise, frequency count marker
Number of markers	6
Marker functions	Peak, next peak, peak left, peak right, minimum search marker to center/start/stop

RF Input VSWR

1 MHz to 8 GHz	1.5:1 (typical)	Atten >20 dB

Second Harmonic Distortion

Mixer level	−25 dBm
50 MHz to 2.6 GHz	<−65 dBc (typical)
>2.6 GHz to 8 GHz	<−70 dBc (typical)

Third-Order Inter-Modulation (third-order intercept: TOI)

200 MHz to 3 GHz	+10 dBm (typical)
>3 GHz to 8 GHz	+12 dBm (typical)

Spurious

Inherent residual response	
Input terminated, 0 dB attenuation, preamplifier off, RBW at 10 kHz, Sweep mode	−90 dBm (nominal)
Exceptions	−85 dBm at 164.1 MHz, 2.57264, 3.2, and 4.5 GHz −80 dBm at 4.8/7.8 GHz −75 dBm at 85.6 MHz and 428 MHz −70 dBm at 256.8 MHz and 770.4 MHz
Input-related spurious	<−70 dBc (nominal)

Dynamic Range

2/3 (TOI-DANL) in 1 Hz RBW	>104 dB	at 2 GHz

Sweep Time

Range	0.4 ms to 1000 s 24 μs to 200 s	Span = 0 Hz (zero span)
Accuracy	±2%	Span = 0 Hz (zero span)
Mode	Continuous, single	

Gated Sweep

Trigger source	External, video, and GPS
Gate length	1 μs to 100 ms
Gate delay	0 to 100 ms

Trigger

Trigger source	Free run, video, external
Trigger Delay Range Resolution	0 to 200 s 6 μs

Measurements*

Channel power
Occupied bandwidth
Spectrum emission mask
Adjacent channel power
Spurious emissions
Field strength
AM/FM audio demodulation
Route map
PIM detection
Dual spectrum

* High-Power CW Signal Generator (Option 003) can be set up simultaneously.

Cable and Antenna Analyzer (standard)

Frequency	
Range	5 MHz to 6 GHz
Resolution	10 kHz
Accuracy	±1 ppm

Data Points
126, 251, 501, 1001, 2001

Measurement Speed	
Reflection/DTF	1.0 ms/point (typical)

Measurement Accuracy	
Corrected directivity	40 dB
Reflection uncertainty	±(0.3 + |20log (1+10-EP/20)|) (typical) EP = directivity − measured return loss

Output Power	
High	5 MHz to 5.5 GHz, 0 dBm (typical) 5.5 GHz to 6 GHz, −5 dBm (typical)
Low	5 MHz to 6 GHz, −30 dBm (typical)

Dynamic Range	
Reflection	60 dB

Maximum Input Level	
Average continuous power	+25 dBm (nominal)
DC voltage	±50 V DC

Interference Immunity	
On channel	+17 dBm at >1.4 MHz from carrier frequency (nominal)
On frequency	0 dBm within ±10 kHz from the carrier frequency (nominal)

Measurements	
Reflection (VSWR) VSWR range Return loss range Resolution	1 to 65 0 to 60 dB 0.01
Distance to Fault (DTF) Vertical VSWR range Vertical return loss range Vertical resolution Horizontal range Horizontal resolution	1 to 65 1 to 60 dB 0.01 0 to (# of data points − 1) x horizontal resolution Maximum = 1500 m (4921 ft) $(1.5 \times 10^8) \times (V_p)$/delta V_p = propagation velocity Delta = stop freq − start freq (Hz)
Cable Loss (1-Port) Range Resolution	0 to 30 dB 0.01 dB
1-Port Phase Range Resolution	−180 to +180° 0.01°
Smith Chart Resolution	0.01

RF Power Meter (standard)

General Parameters	
Display range	100 to +100 dBm
Offset range	0 to 60 dB
Resolution	0.01 dB or 0.1 x W (x = m, u, p)

Internal RF Power Sensor	
Frequency range	10 MHz to 8 GHz
Span	1 kHz to 100 MHz
Dynamic range	−120 to +25 dBm
Maximum power	+25 dBm
Accuracy	Same as spectrum analyzer

External RF Power Sensors		
Directional	**JD731B**	**JD733A**
Frequency range	300 MHz to 3.8 GHz	150 MHz to 3.5 GHz
Dynamic range	0.15 to 150 W (average) 4 to 400 W (peak)	0.1 to 50 W (average) 0.1 to 50 W (peak)
Connector type	Type-N female on both ends	
Measurement type	Forward/reverse average power, forward peak power, VSWR	
Accuracy	±(4% of reading + 0.05 W)[1,2]	

Terminating	**JD732B**	**JD734B**	**JD736B**
Frequency range	20 MHz to 3.8 GHz		
Dynamic range	−30 to +20 dBm		
Connector type	Type-N male		
Measurement type	Average	Peak	Average and peak
Accuracy	±7%[1]		

Optical Power Meter (Standard)

Optical Power Meter	
Display range	−100 to +100 dBm
Offset range	0 to 60 dB
Resolution	0.01 dB or 0.1 mW

External Optical Power Sensors		
	MP-60A	**MP-80A**
Wavelength range	780 to 1650 nm	
Max permitted input level	+10 dBm	+23 dBm
Connector type	Type-N female on both ends	
Connector input	Universal 2.5 and 1.25 mm	
Accuracy	±5%	

1. CW condition at 25°C ±10°C
2. Forward power

2-Port Transmission Measurements (Option 001)

Frequency	
Frequency range	5 MHz to 6 GHz
Frequency resolution	10 kHz

Output Power	
High	5 MHz to 5.5 GHz, 0 dBm (typical) 5.5 GHz to 6 GHz, −5 dBm (typical)
Low	5 MHz to 6 GHz, −30 dBm (typical)

Measurement Speed	
Vector	1.6 ms/point (typical)
Scalar	3.4 ms/point (typical)

Dynamic Range		
Vector	5 MHz to 3 GHz, 80 dB >3 GHz to 6 GHz, 75 dB	at average 5 at average 5
Scalar	5 MHz to 4.5 GHz, >110 dB 4.5 GHz to 6 GHz, >105 dB	

Measurements	
Insertion Loss/Gain Range Resolution	−120 to 100 dB 0.01 dB
2-Port Phase Range Resolution	−180 to +180° 0.01°

Bias-Tee (Option 002)

Voltage	
Voltage range	+12 to +32 V
Voltage resolution	0.1 V

Power
8 W Max

High Power CW Signal Generator (Option 003)

Frequency	
Frequency range	10 MHz to 5500 MHz
Frequency reference	<±1 ppm maximum
Frequency resolution	10 kHz

Output Power	
Range	10 MHz to 3.5 GHz, −60 to +10 dBm 3.5 GHz to 5.5 GHz, −60 to +5 dBm
Step	1 dB
Accuracy	±1.5 dB (20 to 30°C)

GPS Receiver and Antenna (Option 010)

GPS Indicator		
Latitude, longitude, altitude		
High-Frequency Accuracy		
Spectrum, interference, and signal analyzer		
GPS lock	±10 ppb	
Hold over (for 3 days)	±50 ppb (0 to 50°C)	15 minutes after satellite locked
Connector	SMA, female	

Interference Analyzer (Option 011)

Measurements	
Spectrum analyzer	Sound indicator, AM/FM audio demodulation, interference ID, spectrum recorder
Spectrogram	Collect up to 72 hours of data
RSSI	Collect up to 72 hours of data
Interference finder	
Spectrum replayer	
Dual spectrogram	

Channel Scanner (Option 012)

Frequency Range	
	1 MHz to 8 GHz

Measurement Range	
	−110 to +25 dBm

Measurements	
Channel scanner	1 to 20 channels
Frequency scanner	1 to 20 frequencies
Custom scanner	1 to 20 channels or frequencies

Bluetooth Connectivity (Option 013)

Personal Area Network (PAN)
File Transfer Profile (FTP)

Wi-Fi Connectivity (Option 016)

Interface type	USB LAN Card
Interface standard	IEEE 802.11 b/g/n
Chipset	RealTek, Ralink
USB wireless mode	Infrastructure mode
Web-based remote control	Internet Explorer, Chrome, Safari
Internet protocol version	IPv4, IPv6

EMF Analyzer (Option 050)

General Parameters	
Supported Antenna	Isotropic Antenna G700050380 26 MHz to 3 GHz
Mode	Sweep / FFT
Trace	X-Axis, Y-Axis, Z-Axis, Current, Isotropic, Isotropic Accumulated
Limit lines	MSL, ICNIRP
Dwell Time	1 to 60s
Measurement Time	1 to 30 min (# of measurement = Measurement Time / (Dwell Time x 3)
Units	dBμV/m, dBmV/m, dBV/m, V/m, W/m^2, dBm/m^2, dBW/m^2, A/m, dBA/m, and Watt/cm^2.
Miscellaneous	Spectrum logging and Replay Export to CSV PDF Report Generation

Measurement		
Option 050 and G700050380		
Trace: X-Axis, Y-Axis, Z-Axis, Current, Isotropic, Isotropic Accumulated	Isotropic EMF Power: AVG, Max, Min	Accumulated Isotropic EMF Power: AVG, Max, Min

RFoCPRI/Interference Analyzer (Option 008, 060, 061, 062, 063, 064, 065, and 066)

General Parameters		
Optical interface	Dual SFP/SFP+ (supports all MSA compliant SFP modules)	
Line rates	614.4 Mbps (1x) , 1228.8 Mbps (2x)	Option 008 and 060
	2457.6 Mbps (4x)	Option 008 and 061
	3072.0 Mbps (5x)	Option 008 and 062
	4915.2 Mbps (8x)	Option 008 and 063
	6144.0 Mbps (10x)	Option 008 and 064
	9830.4 Mbps (16x)	Option 008 and 065
	10137.6 Mbps (20x)*	Option 008 and 066

Resolution Bandwidth (RBW)		
−3 dB bandwidth	1 kHz to 10 kHz (span ≤ 3.84 MHz) 1 KHz to 100 kHz (3.84 MHz < span < 30.86 MHz)	1-3-10 sequence
Accuracy	±10% (nominal)	

VBW		
−3 dB bandwidth	1 Hz to 100 KHz	1-3-10 sequence
Accuracy	±10% (nominal)	

CPRI Parameter	
IQ Sample width	4 – 20 bits
Mapping method	1 and 3
TX clock	Internal/External/Recovered
Port type	Master/Slave
Map position	AxC#0 − AxC#7
Bandwidth	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz

Measurements

Layer-2 Monitoring		Layer-2 Term			Interference analyzer
Port 1	*Port 2*	*Port 1 or 2 (exclusive)*			Spectrum
LOS	LOS	LOS	SDI		Interference ID
LOF	LOF	LOF	RAI		Sound Indicator
SDI	SDI	Optic RX level	dBm		Spectrogram
RAI	RAI	Protocol version	1 to 10		RSSI
Optic RX level	Optic RX level	C and M HDLC rate (kbps)	No HDLC, 240, 480, 960, 1920, 2400		Spectrum Replayer
SFP Information	*SFP Information*				Dual Spectrum
Wavelength	Wavelength	C and M Ethernet subchannel number	20 to 63		Dual Spectrogram
Vendor	Vendor				Quad Spectrum
Vendor PN	Vendor PN	*Alarm Injection*			**PIM Detection**
Vendor rev	Vendor rev	R-LOS	Single		Single carrier
Power level type	Power level type	R-LOF	Single		Multi carrier
Diagnostic byte	Diagnostic byte	*Error Injection*			PIM calculator
Nominal rate	Nominal rate	Code	Single/rate		
Min rate	Min rate	K30.7	Single/rate		
Max RX level	Max RX level	Error rate	1E-3 to 1E-9		
Max TX level	Max TX level				

*Layer-2 Term is not supported.

RFoCPRI™ GSM Interference Analyzer (Option 068)

General Parameters			
Optical interface	Dual SFP/SFP+ (supports all MSA compliant SFP modules)		
Line rates	614.4 Mbps (1x), 1228.8 Mbps (2x), 2457.6 Mbps (4x), 3072.0 Mbps (5x), 4915.2 Mbps (8x), 6144.0 Mbps (10x), 9830.4 Mbps (16x)		
Resolution Bandwidth (RBW)	1 KHz to 30 kHz (Span≤960 kHz)		
	Accuracy		±10% (nominal)
Video Bandwidth (RBW)	1 Hz to 30 KHz		
	Accuracy		±10% (nominal)

CPRI Parameter	
IQ Sample width	4 – 20 bits
Sample rate	960 KHz
Mapping	N_A=1, S=1, K=4, N_C=1
TX clock	Internal/External/Recovered
Port type	Master/Slave

Measurements					
Layer-2 Monitoring		**Layer-2 Term**		**Layer-2 Term (cont.)**	
Port 1	*Port 2*	*Port 1 or 2 (exclusive)*		*Error*	
LOS	LOS	LOS	Error rate	Code	Single/rate
LOF	LOF	LOF	K30.7	Error rate	Single/rate
RAI	RAI	Optic RX level	dBm	K30.7	
SDI	SDI	Optic RX level	dBm	**Interference analyzer**	
Optic RX level	Optic RX level	Port Type	Master	Spectrum	
SFP Information	*SFP Information*	Protocol Version	1 to 10	Sound indicator	
Wavelength	Wavelength	C&M HDLC rate (kbps)	No HDLC, 240, 480, 960, 1920, 2400	Interference ID	
Vendor	Vendor	C&M Ethernet Subchannel number	20 to 63	Spectrogram	
Vendor PN	Vendor PN	Word Sync Loss Event		RSSI	
Vendor rev	Vendor rev	Code Violation		Spectrum Replayer	
Power level type	Power level type	K30.7 words		Dual Spectrum	
Diagnostic byte	Diagnostic byte	Frame Sync Loss Events		Dual Spectrogram	
Nominal rate	Nominal rate	*Alarm Injection*		Quad Spectrum	
Min rate	Min rate	R-LOS	SDI	**PIM Detection**	
Max RX level	Max RX level	R-LOF	RAI	Single Carrier	
Max TX level	Max TX level			Multi Carrier	
				PIM Calculator	

RFoOBSAI™ Interference Analyzer (Option 070, 071, 072, 073)

General Parameters		
Optical interface	Dual SFP/SFP+ (supports all MSA compliant SFP modules)	
Line rates	768 Mbps (1x)	Option 070
	1536 Mbps (2x)	Option 071
	3072 Mbps (4x)	Option 072
	6144 Mbps (8x)	Option 073
Resolution Bandwidth (RBW)	1 kHz to 10 kHz (span ≤ 3.84 MHz) 1 KHz to 100 kHz (3.84 MHz < span ≤ 30.86 MHz)	
	Accuracy	±10% (nominal)
Video Bandwidth (RBW)	1 Hz to 100 KHz	
	Accuracy	±10% (nominal)
RP3 Type	LTE (FDD/TDD), UMTS (FDD)	
RP3 Address	Hexadecimal	
TX clock	Internal/External/Recovered	
Port type	Master/Slave	
Bandwidth	LTE-FDD/TDD: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz UMTS: 3MHz for downlink, 5MHz for Uplink	
RP3 Address List	RP3 Address, Technology, Scrambler seed*, Message Count*	
Scrambler Seed	Nx7 Index: 0 – 17, step 1	

Measurements				
Layer-2 Monitoring		**Layer-2 Term**		**Interference analyzer**
Port 1	Port 2	Port 1 or 2 (exclusive)		Spectrum
LOS	LOS	LOS		Interference ID
LOF	LOF	LOF		Sound Indicator
Code Violation	Code Violation	Optic RX level	dBm	Spectrogram
K30.7 words	K30.7 words	Optic TX level	dBm	RSSI
Optic RX level	Optic RX level	Port Type	Master	Spectrum Replayer
Optic TX level	Optic TX level	TX State	State machine	Dual Spectrum
Messages Address	Message Address	RX State	State machine	Dual Spectrogram
Message Counter	Message Counter	TX Address	RP3 Address (Hexadecimal)	Quad Spectrum
SFP Information	*SFP Information*	RX Address	RP3 Address (Hexadecimal)	**PIM Detection**
Wavelength	Wavelength	Word Sync Loss Event		Single Carrier
Vendor	Vendor	Code Violation		Multi Carrier
Vendor PN	Vendor PN	K30.7 words		PIM Calculator
Vendor rev	Vendor rev	Frame Sync Loss Events		
Power level type	Power level type	*Alarm Injection*		
Diagnostic byte	Diagnostic byte	K30.7	Single	
Nominal rate	Nominal rate	*Error Injection*		
Min rate	Min rate	Code	Single/rate	
Max RX level	Max RX level	Error rate	1E-3 to 1E-9	
Max TX level	Max TX level			

* Available only when the link rate is 6.1Gbps

RFoCPRI™ LTE-FDD Signal Generator (Option 081)

General Parameters	
Optical interface	Dual SFP/SFP+ (supports all MSA compliant SFP modules)
Link Rate	614.4 Mbps (1x), 1228.8 Mbps (2x), 2457.6 Mbps (4x), 3072.0 Mbps (5x), 4915.2 Mbps (8x), 6144.0 Mbps (10x), 9830.4 Mbps (16x)
IQ Sample width	8 – 20 bits
Mapping method	1 and 3
Waveform	CW: Single Tone, Two Tones Waveform: E-TM1.1, E-TM1.2, E-TM2, E-TM3.1, E-TM3.2, E-TM3.3, Custom
Bandwidth	5 MHz, 10MHz, 15MHz, 20MHz
Sampling Frequency	N x 3.84MHz (N=2, 4, 6, 8)
Gain dynamic range	0 to -50 dB
Frequency error	±10 Hz + ref freq accuracy 99% confidence level
Residual EVM (RMS)	0.2% (typical) Data EVM

RFoCPRI™ LTE-TDD Signal Generator (Option 082)

General Parameters	
Optical Hardware (Option 008)	
Interface	Two SFP/SFP+ ports (supports all MSA compliant SFP modules), One Ethernet port
CPRI Parameter	
Line coding	8B/10B
Line rates	614.4 Mbps (1x), 1228.8 Mbps (2x), 2457.6 Mbps (4x), 3072.0 Mbps (5x), 4915.2 Mbps (8x), 6144.0 Mbps (10x), 9830.4 Mbps (16x)
CPRI Parameter	
IQ Sample width	4 – 20 bits
Mapping method	1 and 3
Waveform	CW: Single Tone, Two Tones Waveform: E-TM1.1, E-TM1.2, E-TM2, E-TM3.1, E-TM3.2, E-TM3.3, Custom
Bandwidth	5 MHz, 10 MHz, 15 MHz, 20 MHz
Sampling Frequency	N x 3.84 MHz (N=2, 4, 6, 8)
Gain dynamic range	0 to −50 dB
Frequency error	±10 Hz + ref freq accuracy, 99% confidence level
Residual EVM (RMS)	0.02% (typical), Data EVM

RFoCPRI LTE-FDD Multi Carrier Signal Generator (Option 083)

General Parameters	
Optical Hardware (Option 008)	
Interface	Two SFP/SFP+ ports (supports all MSA compliant SFP modules)
Max TX	4 carriers / SFP port, Dual port operation is available
CPRI Parameter	
Line coding	8B/10B
Line rates	614.4 Mbps (1x), 1228.8 Mbps (2x), 2457.6 Mbps (4x), 3072.0 Mbps (5x), 4915.2 Mbps (8x), 6144.0 Mbps (10x), 9830.4 Mbps (16x)
IQ Sample width	8 – 20 bits
Waveform mapping	Carrier / TX Container /Map Position
Mapping Method	1 and 3
Waveform	CW, CW (two tone), LTE-FDD E-TM1.1, E-TM1.2, E-TM2, E-TM3.1, E-TM3.2, E-TM3.3, Custom
Bandwidth	5 MHz, 10 MHz, 15 MHz, 20 MHz
Sampling Frequency	N x 3.84 MHz (N=2, 4, 6, 8)
Gain dynamic range	0 to −50 dB
Frequency error	±10 Hz + ref freq accuracy, 99% confidence level
Residual EVM (RMS)	0.02% (typical), Data EVM
Residual EVM (RMS)	0.02% (typical), Data EVM
Measurement	
PIM Analysis (Option 101)	

Single Port Sweep mode	Multi Port Sweep Mode	Multi Port Wideband Mode
Possible PIM Order	Possible PIM Order	Flatness
Possible PIM Frequency	Possible PIM Frequency	Level Diff
PIM level	PIM level	Possible PIM
PIM Detection with Two CW Tones		PIM Detection with up to 8 LTE carriers (2 SFP ports x 4 carriers)

RFoCPRI LTE-TDD Multi Carrier Signal Generator (Option 084)

General Parameters	
Optical Hardware (Option 008)	
Interface	Two SFP/SFP+ ports (supports all MSA compliant SFP modules)
Max TX	4 carriers / SFP port, Dual port operation is available
CPRI Parameter	
Line coding 8B/10B	Line coding 8B/10B
Line rates	614.4 Mbps (1x), 1228.8 Mbps (2x), 2457.6 Mbps (4x), 3072.0 Mbps (5x), 4915.2 Mbps (8x), 6144.0 Mbps (10x), 9830.4 Mbps (16x)
IQ Sample width	**8 – 20 bits**
Waveform mapping	Carrier / TX Container /Map Position
Mapping Method	1 and 3
Waveform	CW, CW (two tone), LTE-FDD E-TM1.1, E-TM1.2, E-TM2, E-TM3.1, E-TM3.2, E-TM3.3, Custom
Bandwidth	5 MHz, 10 MHz, 15 MHz, 20 MHz
Sampling Frequency	N x 3.84 MHz (N=2, 4, 6, 8)
Gain dynamic range	0 to −50 dB
Frequency error	±10 Hz + ref freq accuracy, 99% confidence level
Residual EVM (RMS)	0.02% (typical), Data EVM
Measurement	
PIM Analysis (Option 101)	

Single Port Sweep mode	Multi Port Sweep Mode	Multi Port Wideband Mode
Possible PIM Order	Possible PIM Order	Flatness
Possible PIM Frequency	Possible PIM Frequency	Level Diff
PIM level	PIM level	Possible PIM
PIM Detection with Two CW Tones		PIM Detection with up to 8 LTE carriers (2 SFP ports x 4 carriers)

RFoOBSAI™ LTE-FDD Signal Generator (Option 086)

General Parameters	
Optical Hardware (Option 008)	
Interface	Two SFP/SFP+ ports (supports all MSA compliant SFP modules), One Ethernet port
OBSAI Parameter	
Line coding	8B/10B
Line rates	768 Mbps (Option 070) 1536 Mbps (Option 071) / 3072 Mbps (Option 072) 6144 Mbps (Option 073)
CPRI Parameter	
RP3 Type	LTE
RP3 Address	Hexadecimal
Waveform	CW: Single Tone, Two Tones Waveform: E-TM1.1, E-TM1.2, E-TM2, E-TM3.1, E-TM3.2, E-TM3.3, Custom
Bandwidth	5 MHz, 10 MHz, 15 MHz, 20 MHz
Sampling Frequency	N x 3.84 MHz (N=2, 4, 6, 8)
Gain dynamic range	0 to −50 dB
Frequency error	±10 Hz + ref freq accuracy, 99% confidence level
Residual EVM (RMS)	0.02% (typical), Data EVM

RFoCPRI BBU-Emulation for Alcatel-Lucent (Option 101)

General Parameters

Optical Hardware (Option 008)

Interface	Dual SFP/SFP+ (supports all MAS-compliant SFP modules)
Max TX	4 Carriers/ SFP Port with Option 083 or 084, Dual port operation

CPRI parameter

Line Coding	8B/10B
Line Rate	614.4 Mbps (1x), 1228.8 Mbps (2x), 2457.6 Mbps (4x), 3072.0 Mbps (5x), 4915.2 Mbps (8x), 6144.0 Mbps (10x), 9830.4 Mbps (16x)
Sampling Rates (fs)	3.84 MHz, 7.68 MHz, 15.36 MHz, 23.04 MHz, 30.72MHz
Channel Bandwidth	3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz,
NV (NC*K-NA*s)	0
IQ Sample width	4 – 20 bits
Mapping Method	1 and 3
TX Clock	Internal, External, Recovered
Port Type	Master

Measurements

Option 101		Option 101 and 081 (082)	Option 101 and 083 (084)
Configuration Verification: Carrier Information	**RET Information**	**Coverage Range**	**PIM Analysis-Single Port Sweep Mode**
RRH Description Carrier Information RRH Description	ALD Device Information Antenna Device Data Alarm Status	Spectrum, Downlink Power, Downlink VSWR, Uplink VSWR, Antenna Tilt	TX Power, Possible PIM Order, Possible PIM Frequency, PIM Level
Configuration Verification: CPRI & Active SW	**Spectrum Clearance**		**PIM Analysis-Multi Port Sweep Mode**
CPRI State Active SW	Spectrum Spectrogram RSSI Dual Spectrum Dual Spectrogram		TX Power, Possible PIM Order, Possible PIM Frequency, PIM Level
Configuration Verification: SFP Information	**Link Status**		**PIM Analysis-Multi Port Wideband Mode**
RRH Description SFP Information	LOS, LOF, RAI, SDI, Optic RX Level, Optic TX Level Protocol Version, C&M HDLC Rate, C&M Eth Subchannel Number, Start-up Status, WSLE, CV, K30.7, FSLE		Spectrum, TX Power, Spectral Flatness
Configuration Verification: RTD Information			
RRH Description RTD Information			

Layer-2 BERT (Option 110)

General Parameters			
Optical interface	Dual SFP/SFP+ (supports all MSA compliant SFP modules)		
Line rates	614.4 Mbps (1x), 1228.8 Mbps (2x), 2457.6 Mbps (4x), 3072.0 Mbps (5x), 4915.2 Mbps (8x), 6144.0 Mbps (10x), 9830.4 Mbps (16x)		
TX clock	Internal/External/Recovered		
Port	SFP Port 1 and Port 2 (Dual independent operation)		
Port type	Master/Slave		
Alarm / Error Injection	Alarm	R-LOS/R-LOF/RAI/SDI	
	Error	Code/ K30.7/ Bit	
	Insert Type	Single/ Rate	
Bit Pattern	Live, Digital Word, ANSI 2^{23}–1, ANSI 2^{23}–1 Inv, ANSI 2^{31}–1, ANSI 2^{31}–1 Inv, ANSI 2^{20}–1, ANSI 2^{20}–1 Inv, ANSI 2^{15}–1, ANSI 2^{15}–1 Inv, ANSI 2^{11}–1, ANSI 2^{11}–1 Inv, ITU 2^{23}–1, ITU 2^{23}–1 Inv , ITU 2^{31}–1, ITU 2^{31}–1 Inv, ITU 2^{15}–1, ITU 2^{15}–1 Inv, ITU 2^{11}–1, ITU 2^{11}–1 Inv		
Bit Pattern Mapping mode	Bulk mode for whole payload		
	Channelized mode for AxC Group	Bandwidth: 5MHz, 10MHz, 15MHz, 20MHz	
		Map Position: AxC 0 - 7	
Round Trip Delay	Resolution: ns (min step: 1ns)		
Measurements			
Common			
LOS	RAI	Pattern Sync	Optic Rx level
LOF	SDI		Optic Tx level

BERT	Count	L1 Inband
Code Violation	Rx Code Words	RX Protocol Version
Code Violation Rate	Tx Code Words	Rx C&M HDLC Rate (kbps)
RX K30.7 Words	Rx Frame	Rx C&M Eth Subchannel Number
Word Sync Loss Events	Tx Frame	TX Protocol Version
Frame Sync Loss Events	Round Trip Delay	TX C&M HDLC Rate (kbps)
Bit Errors	Round Trip Delay (Offset)	TX C&M Eth Subchannel Number
Bit Error Rate	Round Trip Delay (avg)	Port Type
Svc Disruption (ms)	Round Trip Delay (min)	Start-up State
	Round Trip Delay (max)	

General Information

Inputs and Outputs	
RF in Connector Impedance Damage level	Spectrum analyzer Type-N, female 50 Ω (nominal) >+33 dBm, ±50 V DC (nominal), 3 min
Reflection/RF out Connector Impedance Damage level	Cable and antenna analyzer Type-N, female 50 Ω (nominal) >+40 dBm, ±50 V DC (nominal), 3 min
RF in Connector Impedance Damage level	Cable and antenna analyzer Type-N, female 50 Ω (nominal) >+25 dBm, ±50 V DC (nominal)
External trigger, GPS Connector Impedance	 SMA, female 50 Ω (nominal)
External ref Connector Impedance Input frequency Input range	 SMA, female 50 Ω (nominal) 10 MHz, 13 MHz, 15 MHz −5 to +5 dBm
USB USB host[1] USB client[2]	 Type A, 1 port Type B, 1 port
SFP Cage Port 1 Port 2	 RFoFiber (with option 008) SFP/SFP+ compatible
LAN[3]	RJ45, 10/100Base-T
Audio jack	3.5 mm headphone jack
External power	5.5 mm barrel connector
Speaker	Built-in speaker
Display	
Type	Resistive touch screen
Size	8 inch, LED backlight, transflective LCD with anti-glare coating
Power	
External DC input	18 to 19 V DC

Power consumption	42 W	54 W maximum (when charging battery)

Battery		
Type	10.8 V, 7800 mA/hr (Lithium ion)	
Operating time	>3 hr (typical) >1.4 hr (RFoCPRI)	
Charge time	3 hr (while not operating) 9 hr (while operating)	
Charging temperature	0 to 45°C (32 to 104°F) ≤85% RH	
Discharging temperature	−20 to 55°C (4 to 131°F) ≤85% RH	
Storage temperature[4]	0 to 25°C (32 to 77°F)	

Data Storage		
Internal	Maximum 512 MB	
External[5]	Limited by size of USB flash drive	
Environmental		
Operating Temperature		
AC Power	0 to 40C (without derating on battery charging)	
	−10 to 55C (with derating on battery charging)	
Battery Operation	0 to 40C (without derating on battery operating time)	
	−10 to 55C (with derating on battery operating time)	
Maximum humidity	95% RH (noncondensing)	
Shock and vibration	MIL-PRF-28800F class 2	
Storage temperature[6]	−30 to 71°C (−22 to 160°F)	
EMC		
IEC/EN 61326-1:2006 (complies with European EMC)		
CISPR11:2009 +A1:2010		
ESD		
IIEC/EN 61000-4-2		
Size and Weight (standard configuration)		
Weight (with battery)	<4.4 kg (9.7 lb)	
Size (W x H x D)	295 x 195 x 82 mm	
Calibration Cycle		
1 year		

1. Connects flash drive, power sensor, EZ-Cal kit, fiber microscope, EMF Antenna, and AntennaAdvisor Handle
2. Data transfer and PC Application based remote control
3. Data transfer or PC Application/Web-based remote control
4. 20 to 85% RH, store battery pack in low-humidity environment; extended exposure to temperature above 45°C could significantly degrade battery performance and life.
5. Support USB 2.0 compatible memory devices. Support memory size up to 2GB (FAT formatted) and 32GB (FAT32 formatted). NTFS format is not supported.
6. With the battery pack removed

Ordering Information

Description	Part Number
Standard CellAdvisor Base Station Analyzer	
Base station analyzer includes: · Spectrum analyzer 9 kHz to 8 GHz · RF power meter 10 MHz to 8 GHz · Cable and antenna 5 MHz to 6 GHz	JD786B[1,2]
Options Note: Upgrade options for the JD786B use the designation JD786BU before the respective last three-digit option number	
2 Port transmission measurements for JD786B[3]	JD786B001
Bias Tee for JD786B[4]	JD786B002
CW signal generator for JD786B	JD786B003
Optical hardware for JD786B[5]	JD786B008
GPS receiver and antenna for JD786B	JD786B010
Interference analyzer for JD786B[6,7]	JD786B011
Channel scanner for JD786B	JD786B012
Bluetooth connectivity for JD786B[8]	JD786B013
Wi-Fi connectivity for JD786B[9]	JD786B016
EMF analyzer for JD786B[10]	JD786B050
RFoCPRI 614M & 1.2G interference analyzer for JD786B[11,12]	JD786B060
RFoCPRI 2.4G interference analyzer for JD786B[11,12]	JD786B061
RFoCPRI 3.1G interference analyzer for JD786B[11,12]	JD786B062
RFoCPRI 4.9G interference analyzer for JD786B[11,12]	JD786B063
RFoCPRI 6.1G interference analyzer for JD786B[11,12]	JD786B064
RFoCPRI 9.8G interference analyzer for JD786B[11,12]	JD786B065
RFoCPRI 10.1G interference analyzer for JD786B[11,12]	JD786B066
RFoCPRI GSM interference analyzer for JD786B[21,22,23]	JD786B068
RFoOBSAI 768M Interference analyzer for JD786B[11,12]	JD786B070
RFoOBSAI 1.5G interference analyzer for JD786B[11,12]	JD786B071
RFoOBSAI 3.1G interference analyzer for JD786B[11,12]	JD786B072
RFoOBSAI 6.1G interference analyzer for JD786B[11,12]	JD786B073
RFoCPRI LTE-FDD signal generator for JD786B[11,12,13]	JD786B081
RFoCPRI LTE-TDD signal generator for JD786B[11,12,13]	JD786B082
RFoCPRI LTE-FDD multi carrier signal generator for JD786B[11,12,14]	JD786B083
RFoCPRI LTE-TDD multi carrier signal generator for JD786B[11,12,15]	JD786B084
RFoOBSAI LTE-FDD signal generator for JD786B[11,12,16]	JD786B086
ALU BBU emulation for JD786B[11,12]	JD786B101
CPRI Layer-2 BERT for JD786B[11,12,13]	JD786B110
2 port transmission measurements floating license for JD740B/JD780B	JD780B001-FL
GPS receiver and antenna floating license for JD740B/JD780B	JD780B010-FL
Interference analyzer floating license for JD740B/JD780B	JD780B011-FL
Channel scanner floating license for JD740B/JD780B	JD780B012-FL
Bluetooth connectivity floating license for JD740B/JD780B	JD780B013-FL
Wi-Fi connectivity floating license for JD740B/JD780B	JD780B016-FL

Description	Part Number
EMF analyzer floating license for JD740B/JD780B	JD780B050-FL
RFoCPRI 614M & 1.2G interference analyzer floating license for JD740B/JD780B	JD780B060-FL
RFoCPRI 2.4G interference analyzer floating license for JD740B/JD780B	JD780B061-FL
RFoCPRI 3.1G interference analyzer floating license for JD740B/JD780B	JD780B062-FL
RFoCPRI 4.9G interference analyzer floating license for JD740B/JD780B	JD780B063-FL
RFoCPRI 6.1G interference analyzer floating license for JD740B/JD780B	JD780B064-FL
RFoCPRI 9.8G interference analyzer floating license for JD740B/JD780B	JD780B065-FL
RFoCPRI 10.1G interference ananlyzer floating license for JD740B/780B	JD780B66-FL
RFoCPRI GSM interference analyzer floating license for JD740B/JD780B	JD780B068-FL
RFoOBSAI 768M interference analyzer floating license for JD740B/JD780B	JD780B070-FL
RFoOBSAI 1.5G interference analyzer floating license for JD740B/JD780B	JD780B071-FL
RFoOBSAI 3.1G interference analyzer floating license for JD740B/JD780B	JD780B072-FL
RFoOBSAI 6.1G interference analyzer floating license for JD740B/JD780B	JD780B073-FL
RFoCPRI LTE-FDD signal generator floating license for JD740B/JD780B	JD780B081-FL
RFoCPRI LTE-TDD signal generator floating license for JD740B/JD780B	JD780B082-FL
RFoCPRI LTE-FDD multi carrier signal generator floating license for JD740B/JD780B	JD780B083-FL
RFoCPRI LTE-TDD multi carrier signal generator floating license for JD740B/JD780B	JD780B084-FL
RFoOBSAI LTE-FDD signal generator floating license for JD740B/JD780B	JD780B086-FL
ALU BBU emulation floating license for JD740B/JD780B	JD780B101-FL
Reserved for VZW[21, 22]	JD780B102
Layer-2 BERT floating license for JD740B/JD780B	JD780B110-FL

Optional Accessories	
Accessory - RF Calibrators (General)	
Y- calibration kit Type-N(m), DC to 6 GHz, 50 ohm	JD78050509
Y- calibration kit DIN(m), DC to 6 GHz, 50 ohm	JD78050510
EZ-Cal kit Type-N(m), DC to 6 GHz, 50 ohm	JD70050509
Dual port Type-N 6 GHz calibration kit (Includes 1x JD78050509 Y- calibration kit, 2x G700050530 RF Cable, and 2x G700050575 RF Adapter Type-N(f) to Type-N(f))	JD78050507
Dual port DIN 6 GHz calibration kit (Includes 1x JD78050510 DIN Y- calibration kit, 2x G710050536 RF Cable, and 2x G700050572 RF Adapter DIN(m) to DIN(m))	JD78050508
50 ohm Load, DC to 4 GHz, 1 W	GC72550511

Ordering Information (Continued)

Description	Part Number
Accessory - RF Cables (Cables)	
RF cable DC to 8 GHz Type-N(m) to Type-N(m), 1.0 m	G700050530
RF cable DC to 8 GHz Type-N(m) to Type-N(f), 1.5 m	G700050531
RF cable DC to 8 GHz Type-N(m) to Type-N(f), 3.0 m	G700050532
RF cable DC to 18 GHz Type-N(m) to SMA(m), 1.5 m	G710050533
RF cable DC to 18 GHz Type-N(m) to QMA(m), 1.5 m	G710050534
RF cable DC to 18 GHz Type-N(m) to SMB(m),1.5 m	G710050535
RF cable DC to 6 GHz Type-N(m) to DIN(f), 1.5 m	G710050536
RF cable DC to 4 GHz Type-N(m) to 1.0/2.3 (m), 1.5 m	G710050537
Phase-stable RF cable w grip DC to 6 GHz Type-N(m) to Type-N(f), 1.5 m	G700050540
Phase-stable RF cable w grip DC to 6 GHz Type-N(m) to DIN(f), 1.5 m	G700050541
RF cable DC to 18 GHz Type-N(m) to Type-N(f), 1.5 m	G710050531
Accessory - Optic Cables (Cables)	
SM/LC T-Jumper and 1.5 m fiber cable	G700050401
MM/LC T-Jumper and 1.5 m fiber cable	G700050402
Accessory - RF Antennas (General)	
RF omni antenna Type-N(m), 806 to 896 MHz	G700050353
RF omni antenna Type-N(m), 870 to 960 MHz	G700050354
RF omni antenna Type-N(m), 1710 to 2170 MHz	G700050355
RF omni antenna Type-N(m), 720 to 800 MHz	G700050356
RF omni antenna Type-N(m), 2300 to 2700 MHz	G700050357
Mag mount RF omni antenna Type-N(m), 689 to 1200 MHz, 1700 to 2700 MHz, 3000 to 6000 MHz	G700050358
RF Omni Antenna N(m), 2.4 GHz to 2.5 GHz, 4.5 dBi, and 5.150 GHz to 5.850 GHz, 7 dBi	G700050359
RF yagi antenna Type-N(f), 1750 to 2390 MHz, 10.2 dBd	G700050363
RF yagi antenna Type-N(f), 806 to 896 MHz, 10.2 dBd	G700050364
RF yagi antenna Type-N(f), 866 to 960 MHz, 9.8 dBd	G700050365
RF yagi antenna SMA(f), 650 to 4000 MHz, 1.85 dBd	G700050366
RF yagi antenna SMA(f), 650 to 6000 MHz, 2.85 dBd	G700050367
Isotropic Antenna Type-N(m), 26 MHz to 3 GHz	G700050380
Accessory - RF Power Sensor (General)	
Directional power sensor (peak and average power) 300 to 3800 MHz	JD731B
Terminating power sensor (Average Power) 20 to 3800 MHz	JD732B
Directional power sensor (peak and average power) 150 to 3500 MHz	JD733A
Terminating power sensor (peak power) 20 to 3800 MHz	JD734B
Terminating power sensor (average/peak power) 20 to 3800 MHz	JD736B
Accessory - RF Adapters (Connector & Adapters)	
Adapter Type-N(m) to DIN(f), DC to 7.5 GHz, 50 ohm	G700050571
Adapter DIN(m) to DIN(m), DC to 7.5 GHz, 50 ohm	G700050572
Adapter Type-N(m) to SMA(f) DC to 18 GHz, 50 ohm	G700050573

Description	Part Number
Adapter Type-N(m) to BNC(f), DC to 4 GHz, 50 ohm	G700050574
Adapter Type-N(f) to Type-N(f), DC to 18 GHz 50 ohm	G700050575
Adapter Type-N(m) to DIN(m), DC to7.5 GHz, 50 ohm	G700050576
Adapter Type-N(f) to DIN(f), DC to 7.5 GHz, 50 ohm	G700050577
Adapter Type-N(f) to DIN(m), DC to 7.5 GHz, 50 ohm	G700050578
Adapter DIN(f) to DIN(f), DC to 7.5 GHz, 50 ohm	G700050579
Adapter Type-N(m) to Type-N(m), DC to 11 GHz 50 ohm	G700050580
Adapter N(m) to QMA(f), DC to 6.0 GHz, 50 ohm	G700050581
Adapter N(m) to QMA(m), DC to 6.0 GHz, 50 ohm	G700050582
Adapter N(m) to 4.1/9.5 MINI DIN (f), DC to 6.0 GHz, 50 ohm	G700050583
Adapter N(m) to 4.1/9.5 MINI DIN (m), DC to 6.0 GHz, 50 ohm	G700050584
Adapter N(m) to 4.3-10 (f), DC to 6.0 GHz, 50 ohm	G700050585
Adapter N(m) to 4.3-10 (m), DC to 6.0 GHz, 50 ohm	G700050586
Adapter Type-N(m) to DIN(f), DC to 4 GHz, 50 ohm	G710050571
Adapter N(f) to N(f), DC to 4 GHz, 50 ohm	G710050575
Adapter Type-N(f) to DIN(f), DC to 4 GHz, 50 ohm	G710050577
Adapter Type-N(f) to DIN(m), DC to 7 GHz, 50 ohm	G710050578
Accessory - RF Miscellaneous (General)	
Attenuator 40 dB, 100 W, DC to 4 GHz (unidirectional)	G710050581
Bandpass filter 696 MHz to 716 MHz, N(m) to N(f), 50 ohm	G700050601
Bandpass filter 776 MHz to 788 MHz, N(m) to N(f), 50 ohm	G700050602
Bandpass filter 806 MHz to 849 MHz, N(m) to N(f), 50 ohm	G700050603
Bandpass filter 1710 MHz to 1755 MHz, N(m) to N(f), 50 ohm	G700050604
Bandpass filter 1850 MHz to 1910 MHz, N(m) to N(f), 50 ohm	G700050605
Bandpass filter 703 MHz to 748 MHz, N(m) to N(f), 50 ohm	G700050606
Bandpass filter 832 MHz to 862 MHz, N(m) to N(f), 50 ohm	G700050607
Bandpass filter 880 MHz to 915 MHz, N(m) to N(f), 50 ohm	G700050608
Bandpass filter 1710 MHz to 1785 MHz, N(m) to N(f), 50 ohm	G700050609
Bandpass filter 1920 MHz to 1980 MHz, N(m) to N(f), 50 ohm	G700050610
Bandpass filter 2500 MHz to 2570 MHz, N(m) to N(f), 50 ohm	G700050611
Accessory - General	
2 port USB hub	G700050200
USB Bluetooth dongle and dipole antenna 5 dBi	JD70050006
GPS antenna for JD740 and JD780 series	JD71050351
AntennaAdvisor handle19	JD70050007
Cross LAN cable (6ft)	G700550335
USB A to B cable (1.8m)	GC73050515

Ordering Information (Continued)

Description	Part Number
> 1GB USB memory	GC72450518
Stylus pen	G710550316
Accessory - Battery & Chargers	
Rechargeable lithium ion battery	G710550325
JD700B series AC/DC power adapter_90 W_15 V	JD70050326
Automotive cigarette lighter/12V DC adapter	G710550323
External battery charger	G710550324
Accessory - Manual & Documentation	
JD700B series user's guide - printed version	JD700B362
Accessory - Carrying Case	
Soft carrying case	JD74050341
Hard carrying Case	JD71050342
Hard carrying case with wheels	JD70050342
CellAdvisor backpack carrying case	JD70050343
Optional TAP	
Optical nTAP, three-channel, 50 µm, MM, LC, 50/50 split ratio	TO3-M5-LC-55-K
Optical nTAP, three-channel, 9 µm, SM, LC, 50/50 split ratio	TO3-SM-LC-55-K
Optional SFP Transceiver	
SFP 4G/2G/1G Fibre Channel & 1G Ethernet, 850nm, 150-500m, SX	CSFP-4G-8-1
SFP 4G/ 2G/ 1G Fibre Channel & 1G Ethernet, 1310nm, 5km, LX	CSFP-4G-3-1
SFP 4G/2G/1G Fibre Channel & 1G Ethernet, 1310nm, 20km, LX	CSFP-4G-3-2
SFP+ 8G/4G/2G Fibre Channel, 6G/4.9G CPRI 850 nm MM Multirate	CSFP-PLUS-8G-8-1

Description	Part Number
SFP+ 8G/4G/2G Fibre Channel, 6G/4.9G CPRI 1310nm SM, 10km	CSFP-PLUS-8G-3-1
SFP+ 1G/10G Ethernet, 1G/10G Fiber Channel & 9.8G CPRI, 850nm, MM, 300m	SFPPLUS-1GE-10GE-8-1
SFP+ 1G/10G Ethernet, 1G/10G Fiber Channel & 9.8G CPRI, 1310nm, SM, 10km	SFPPLUS-1GE-10GE-3-1
Optical Power Meters and Fiber Microscope Kits	
USB optical power meter with software, 2.5 and 1.25 mm interfaces, 30-inch USB extender, and carrying pouch	MP-60A
USB optical power meter — high power, with software, 2.5 and 1.25 mm interfaces, 30-inch USB extender, and carrying pouch	MP-80A
KIT: FBP-P5000i digital probe, FiberChekPRO software, case, and four tips	FBP-SD101
KIT: FBP-P5000i digital probe, FiberChekPRO software, case, and seven tips	FBP-MTS-101
KIT: FBP-P5000i digital probe, MP-60A USB power meter, FiberChekPRO software, case, tips, and adapters	FIT-SD103
KIT: FBP-P5000i digital probe, MP-60A USB power meter, FiberChekPRO software, case, tips, adapters, and cleaning materials	FIT-SD103-C
KIT: FBP-P5000i digital probe, MP-80A USB power meter, FiberChekPRO software, case, tips, and adapters	FIT-SD113

1. Supplied accessories: User's Guide (Soft copy), USB Memory, Cross LAN Cable, USB Cable, DC car adapter, Li-Ion Battery, AC/DC adapter, Stylus Pen
2. Highly recommended using the Calibration Kit (JD78050509, JD78050510, JD70050509)
3. Highly recommended using the Calibration Kit (JD78050507, JD78050508) and Bias Tee (option 002)
4. Requires option 001
5. Needs for RFoFIBER options 060,061,062,063,064,065,068,070,071,072,073,081,082,083, 084,086,091,092,096,101
6. Needs Omni or Yagi antenna
7. Highly recommended adding option 010
8. Includes a Bluetooth USB dongles with 5 dBi dipole antennas (JD70050006)
9. Includes a Wi-Fi USB dongle
10. Requires G700050380
11. Requires option 008
12. Needs proper SFP/SFP+ Transceiver and Optical Tap or thur mode fiber cable (G700050401, G700050402)
13. Requires at least one of RFoCPRI Interference Analyzer options (option 060 to 065), needs each of the respective/corresponding Interference Analyzer line rate
14. Requires option 081
15. Requires option 082
16. Requires at least one of RFoOBSAI Interference Analyzer options (option 070 to 073), needs each of the respective/corresponding Interference Analyzer line rate

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• Maximize your time with on-demand training, priority technical application support and rapid service.

• Maintain your equipment for peak performance at a low, predictable cost.

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To find out which VIAVI Care Support Plan options are available for this product in your region, contact your local representative or visit: viavisolutions.com/viavicareplan

Features

*5-year plans only

Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration	Accessory Coverage	Express Loaner
BronzeCare	Technician Efficiency	**Premium**	✓	✓	✓				
SilverCare	Maintenance & Measurement Accuracy	**Premium**	✓	✓	✓	✓*	✓		
MaxCare	High Availability	**Premium**	✓	✓	✓	✓*	✓	✓	✓

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