Data Sheet

VIAVI CellAdvisor™

JD788A Signal Analyzer

Spectrum Analyzer (Standard)

Frequency			
Frequency range	9 kHz to 8 GHz		
Frequency accuracy	Frequency refer	± (Readout frequency x Internal 10MHz Frequency reference accuracy + RBW centering + 2 Hz + 0.5 x Horizontal resolution)	
Internal 10 MHz Freque	ency 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	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 (VBV	V)		
–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, VE	3W 1 kHz, RMS de	tector	
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	±50 V DC	

*All specifications are subject to change without notice.



Spectrum Analyzer: 9 kHz to 8 GHz Power Meter: 10 MHz to 8 GHz Specification* Conditions

VIAVI Solutions

The JD788A 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 under 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

>3 GHz to 8 GHz	+12 dBm (typical)		
200 MHz to 3 GHz	+10 dBm (typical)		
Third-Order Inter-Mod	-	ier intercept: TOI)	
>2.6 GHz to 8 GHz	<-70 dBc (typical)		
50 MHz to 2.6 GHz	<-65 dBc (typical)		
Mixer level	-25 dBm		
Second Harmonic Dist			
RF Input VSWR 1 MHz to 8 GHz	1.5:1 (typical)	Atten >20 dB	
minimum search marker to center/start/stop			
Marker functions	6 Peak, next peak, peak left, peak right,		
Number of markers	frequency count marker		
Marker types	Normal, delta, delta pair, noise,		
Markers	1% of reference lev		
Setting Resolution Log scale Linear scale	0.1 dB		
Setting range	–120 to +100 dBm		
Reference Level	120 to 100 JD		
Defense land		after 60-minute warm up	
	Add ±1.0 dB	warm up -10 to 55°C	
1 MHz to 8 GHz	±1.3 dB (±0.5 dB typical)	20 to 30°C after 60-minute	
Preamplifier off, power		o-coupled	
Total Absolute Amplitude Accuracy			
Trace functions	Clear/write, maxim capture, load view	um hold, minimum hold, on/off	
Number of traces	6		
Detectors	Normal, positive pe negative peak, RM		
Linear scale and units (10 divisions displayed)	V, mV, mW, W		
Log scale and units (10 divisions displayed)	1 to 20 dB/division dBm, dBV, dBmV, d	•	
Display Range			
>7 GHz to 8 GHz	–150 dBm (-155 dBr		
>3 GHz to 5 GHz >5 GHz to 7 GHz	–158 dBm (–162 dB –155 dBm (–158 dB		
10 MHz to 3 GHz	-160 dBm (-165 dB		
Preamplifier On			
>7 GHz to 8 GHz	–134 dBm (–138 dBm, typical) –128 dBm (–134 dBm, typical)		
>2.4 GHz to 6 GHz >6 GHz to 7 GHz	–136 dBm (–140 dBm, typical) –134 dBm (–138 dBm, typical)		
10 MHz to 2.4 GHz	–140 dBm (–145 dBm, typical)		
Preamplifier Off			
RIVIS delector			

Spurious		
Inherent residual response		
Input terminated, 0 dB attenuation, pream- plifier 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 4.8/78 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 (nomina)
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, ex	ternal
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		

* CW signal generator (Option 003) can be set up simultaneously.

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	I x W (>	κ = m, ι	ц, р)
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 spe	ctrum a	analyze	er
External RF Power Sensors				
Directional	JD731B		JD733	BA
Frequency range	300 MHz to 3.8 GHz		150 N	IHz to 3.5 GHz
Dynamic range	0.15 to 150 W (average) 4 to 400 W (0.1 to (avera 0.1 to	
Connector type	Type-N female on both ends		oth ends	
Measurement type	Forward/reverse average power, forward peak power, VSWR			
Accuracy	±(4% of reading + 0.05 W) ^{1,2}		0.05 W) ^{1,2}	
Terminating	JD732B	JD734	1B	JD736B
Frequency range	20 MHz to 3.8 GHz		GHz	
Dynamic range	-30 to +20 dBm			
Connector type	Type-N male		5	
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 input	Universal 2.5 and 1.25 mm	
Accuracy	±5%	

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

CW Signal Generator (Option 003) / High Power CW Signal Generator (Option 007)

Frequency		
Frequency range	5 MHz to 6 GHz	
Frequency reference	<±1 ppm maximum	
Frequency resolution	10 kHz	
Output Power		
Range (Option 003)	5 MHz to 5.5 GHz, –60 to 0 dBm >5.5 to 6 GHz, –60 to –5 dBm	
Range (Option 003 & 007)	5 MHz to 3.5 GHz, -60 to +10 dBm 3.5 to 5.5 GHz, -60 to +5 dBm >5.5 to 6 GHz, -60 to -5 dBm	
Step	1 dB	
Accuracy	±1.5 dB (20 to 30°C)	

GPS Receiver and Antenna (Option 010)

GPS Indicator

	1 11 1	1.1.1
Latitude.	longitude,	altitude

High-Frequen	icv Accuracy

-	_			
Snectrum	interference,	and signa	l analyzer	
Spectrum,	interrererice,	anu siyna	i allalyzei	

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)

1 to 20 channels
1 to 20 frequencies
1 to 20 channels or frequencies

Bluetooth Connectivity (Option 006)

Personal area network (PAN)
File transfer profile (FTP)
Web-based remote control

Wi-Fi Connectivity (Option 016)

General Parameters	
Interface type	USB LAN Card
Interface standard	IEEE 802.22 b/g/n
Chipset	RealTek, Ralink
USB wireless mode	Infrastructure mode
Web-based remote control	Internet Explorer, Chrome, Safari
Internet protocol version	IPv4, IPv6

cdmaOne/cdma2000[®] Signal Analyzer (Options 020 and 040)

General Parameters				
Frequency range	Band 0 to 10	Band 0 to 10		
Input signal level	-40 to +25 dBm			
RF channel power accuracy	±1.0 dB (typical)			
CDMA compatibility	cdmaOne and cdma2000			
Frequency error	±10 Hz + ref freq accuracy	99% confidence level		
Rho accuracy	±0.005	0.9 < Rho < 1.0		
Residual Rho	>0.995 (typical)			
PN offset	1 x 64 chips			
Code domain power	±0.5 dB relative power	Code channel power >-25 dB		
	±1.5 dB absolute power	Code channel power >–25 dB		
Pilot power accuracy	±1.0 dB (typical)			
Time offset	±1.0 µs, ±0.5 µs (typical)	±1.0 μs, ±0.5 μs (typical) External trigger		
Measurements				

Option 020						
Channel power	ACPR	Peak level at defined range	Channel power	Reference power	Rho	
Channel power	Reference power	Constellation	Power bar graph (Abs/Rel)	Code utilization	Frequency error	
Spectral density	Abs power at defined range	Pilot power	Pilot, Paging, Sync, Q-Paging	Code, spreading factor	Time offset	
Peak to average power	Rel power at defined range	Rho	Max, avg active power	Allocation (channel type)	Carrier feed-through	
Occupied bandwidth	Multi-ACPR	EVM	Max, avg inactive power	Relative, absolute power	Pilot power	
Occupied bandwidth	Lowest reference power	Frequency error	PN offset	Auto measure	Max inactive power	
Integrated power	Highest reference power	Time offset	Codogram	Channel power	PN offset	
Occupied power	Abs power at defined range	Carrier feed-through	Code utilization	Occupied bandwidth	Power statistics CCDF	
Spectrum emission mask	Rel power at defined range	PN offset	RCSI	Spectrum emission mask		
Reference power	Spurious emissions	Code domain power	Pilot, Paging, Sync, Q-Paging	ACPR		
Peak level at defined range	Peak freq at defined range	Abs/Rel code power	CDP table	Multi-ACPR		
		Optio	on 040			
Channel scanner	Pilot dominance	Ec/lo, delav	Max. avg active	Peak amplifier	Pilot power	

Channel scanner (up to 6)	Pilot dominance	Ec/lo, delay	Max, avg active power	Peak amplifier capacity	Pilot power	
Frequencies or channels	PN offset	Code domain power	Max, avg inactive power	Average amplifier capacity	Ec/lo	
Channel power, PN offset	Ec/lo, pilot power, delay	Abs/Rel code power	Frequency error	Code utilization		
Pilot power, Ec/lo	Multipath profile	Channel power	Time offset, Rho, EVM	Peak utilization		
PN scanner (up to 6)	Channel power	PN offset	Carrier feed-through	Average utilization		
Channel power	Multipath power	Pilot, Paging, Sync, Q-Paging power	Amplifier capacity	Route map		

Longitude, latitude, and satellite in all screens

EV-DO Signal Analyzer (Options 021 and 041)

General Parameters				
Frequency range	Band 0 to 10			
Input signal level	-40 to +25 dBm			
RF channel power accuracy	±1.0 dB (typical)			
EV-DO compatibility	Rev 0, Rev A and Rev B			
Frequency error	±10 Hz + ref freq accuracy	99% confidence level		
Rho accuracy	±0.005	0.9 < Rho < 1.0		
Residual Rho	>0.995 (typical)			
PN offset	1 x 64 chips			
Code domain power	±0.5 dB relative power	Code channel power >-25 dB		
	±1.5 dB absolute power	Code channel power >-25 dB		
Pilot power accuracy	±1.0 dB (typical)			
Time offset	±1.0 μs, ±0.5 μs (typical)	±1.0 µs, ±0.5 µs (typical) External trigger		
Measurements				

		Optio	on 021		
Channel power	ACPR	Power vs. time	Constellation (pilot,	Code domain power	Auto measure
Channel power	Reference power	(idle and active slot)	MAC 64/128, and data)	(data)	Channel power
Spectral density	Abs power at defined	Slot average power	Channel power	Data channel power	Occupied bandwidth
Peak to average power	range	On/off ratio	Rho, EVM, peak CDE	Slot average power	Spectrum emission mask
Occupied bandwidth	Rel power at defined range	Idle activity	Frequency error	Max, avg active power	ACPR
Occupied bandwidth		Pilot, MAC, data power	Time offset	Max, avg inactive power	Multi-ACPR
Integrated power	Multi-ACPR	Constellation (com-	Carrier feed-through	PN offset	Pilot, MAC, data power
Occupied power	Lowest reference power	posite 64/128)	PN offset	MAC codogram	On/off ratio
Spectrum emission mask	Highest reference power	Channel power	Modulation type*	Code utilization	PvsT mask (idle slot) or PvsT mask (active slot)
Reference power	Abs power at defined	Rho, EVM, Peak CDE	Code domain power	RCSI	
Peak level at defined range	range	Frequency error	(pilot and MAC 64/128)	Slot, pilot, MAC, data	Frequency error
	Rel power at defined range	Time offset	Pilot/MAC channel power	MAC CDP table	Time offset
		Carrier feed-through	Slot average power	Reference power	Carrier feed-through
	Spurious emissions	PN offset	Max active I/Q power	Code utilization	Pilot, MAC, data Rho
	Peak frequency at defined range	Pilot, MAC, data power	Avg active I/Q power	Code, spreading factor	Max inactive I/Q power
		Pilot, MAC, data EVM	Max inactive I/Q power	Allocation (channel type)	PN offset
	Peak level at defined range		Avg inactive I/Q power	Relative, absolute power	Power statistics CCDF
			PN offset		
		Optio	on 041		•
Channel scanner	PN scanner (up to 6)	Multipath profile	Code domain power	Frequency error	Peak utilization
(up to 6)	Channel power	Channel power	Slot average power	Time offset	Average utilization
Frequencies or chan- nels	Pilot dominance	Multipath power	PN offset	Carrier feed-through	Route map
PN offset	PN offset	Ec/lo, delay	Pilot, MAC, data power	Max active I/Q power	Pilot power
Pilot, MAC, data power	Ec/lo, pilot power, delay		Pilot, MAC, data Rho	Avg active I/Q power	Ec/lo
			(Composite) EVM	Code utilization	

Longitude, latitude, and satellite in all screens

*Measurement is performed in Data Constellation only.

GSM/GPRS/EDGE Signal Analyzer (Options 022 and 042)

General Parameter	S				
Frequency range		450 MHz to 500 MHz 820 MHz to 965 MHz 1.705 GHz to 1.995 GHz			
Input signal range		-40 to +25 dBm			
Burst power		±1.0 dB			
Frequency error		±10 Hz + ref freq accur	асу	99% confidence level	
GMSK modulation q	uality				
Phase RMS Accuracy		±1.0 degrees (0 < Phase RMS < 8)			
Residual error		0.7 degrees (typical)			
Phase peak accuracy	,	±2.0 degrees		(0 < Phase peak < 30)	
8 PSK modulation q	uality			·	
EVM Accuracy	VM Accuracy			(2% < EVM < 8%)	
Residual error		2.5%		÷	
RF power vs. time		±0.25 symbol			
Measurements					
		Optio	on 022		
Channel power	Reference power	Frame average power	I/Q origin offset*	Occupied bandwidth	EVM RMS*
			1		

Channel power	Reference power	Frame average power	I/Q origin offset*	Occupied bandwidth	EVM RMS*
Channel power	Peak level at defined range	Burst power (Slot 0 to 7)	TSC	Spectrum emission mask	EVM Peak*
Spectral density	Spurious emissions	TSC (Slot 0 to 7)	BSIC	Spurious emission mask	I/Q origin offset
Peak to average power	Peak frequency at defined range	Constellation	C/I*	Burst power	C/I*
Occupied bandwidth	Peak level at defined range	Burst power	EVM RMS*	PvsT – Mask	
Occupied bandwidth	Power vs. time (slot)	Modulation type	EVM Peak*	Frame average power	
Integrated power	Burst power	Frequency error	EVM 95 th *	Frequency error	
Occupied power	Max/min point	Phase error RMS	Auto measure	Phase error RMS	
Spectrum emission mask	Power vs. time (frame)	Phase error peak	Channel power	Phase error peak	
		Optio	on 042		
Channel/frequency scanner	Group (traffic, control)	(10 strongest)	Modulation analyzer	Frame average power	Burst power
Channels or frequencies	BSIC (NCC, BCC)	Frame average power	Frame avg power trend	BSIC, frame no. and time	Modulation type
Absolute power	Multipath profile	SNR, delay	C/I trend	C/I, frequency error	

Longitude, latitude, and satellite in all screens

* Measurements performed for 8PSK modulation signals (EDGE) only.

WCDMA/HSPA+ Signal Analyzer (Options 023 and 043)

General Parameters					
Frequency range	Band 1 to 14, 19 to 22, 25, 26				
Input signal range	-40 to +25 dBm				
RF channel power accuracy	±1.0 dB, ±0.7 dB (typical)				
Occupied bandwidth accuracy	±100 kHz				
Adjacent channel leakage ratio (ACLR)	<-56 dB, ±0.7 dB at 5 MHz offset <-58 dB, ±0.8 dB at 10 MHz offset				
WCDMA modulation	QPSK	QPSK			
HSPA+ modulations	QPSK, 16 QAM, 64 QAM				
Frequency error	± 10 Hz + ref freq accuracy	99% confidence level			
EVM accuracy	±2.0%	2% ≤ EVM ≤ 20%			
Residual EVM	2.5% (typical)				
Code domain power	±0.5 dB relative power Code channel power >–25 dB				
	±1.5 dB absolute power				
CPICH power accuracy	±0.8 dB (typical)				

Measurements

	Option 023					
Channel power	ACLR	Constellation	Max, avg active power	Codogram	Auto measure	
Channel power	Reference power	CPICH power	Max, avg inactive power	Code utilization	Channel power	
Spectral density	Abs power at defined	Rho, EVM	Scramble code	RCSI	Occupied bandwidth	
Peak to average power	range	Peak CDE	<i>Relative code domain error</i>	CPICH, P-CCPCH, S-CCPCH, PICH, P-SCH,	Spectrum emission mask	
Occupied bandwidth	Rel power at defined	Frequency error		S-SCH	ACLR	
Occupied bandwidth	range	Time offset	Abs/Rel code power	CDP table	Multi-ACLR	
Integrated power	Multi-ACLR	Carrier feed-through	Code error	Reference power	Spurious emission mask	
Occupied power	Lowest reference power	Scramble code	Individual code EVM, RCDE, and its constel-	Code utilization	Frequency error	
Spectrum emission mask	Highest reference	Code domain power	lation	Code, spreading factor	EVM	
Reference power	Abs power at defined range	Abs/Rel code power		Allocation (channel type)	Peak CDE	
Peak level at defined		Individual code EVM	Channel power	EVM, modulation type	Carrier feed-through	
range	Rel power at defined range	and its constellation	Power bar graph (Abs/Rel/Delta power)	Relative, absolute power	CPICH absolute power	
		Channel power	CPICH, P-CCPCH,		CPICH relative power	
	Spurious emissions	Power bar graph	S-CCPCH, PICH,		Max inactive power	
	Peak frequency at	(Abs/Rel/Delta power)	P-SCH, S-SCH		Scramble code	
	defined range	CPICH, P-CCPCH,	Avg RCDE QPSK, 16		Power statistics CCDF	
	Peak level at defined range	S-CCPCH PICH, P-SCH, S-SCH	QAM, 64 QAM			

		Opt	ion 043		
Channel scanner	Scramble scanner	Multipath profile	Code domain power	Max, avg active power	Amplifier capacity
(up to 6)	(up to 6)	Channel, multipath power	Abs/Rel code power	Max, avg inactive power	Peak amplifier capacity
Frequencies or chan- nels	Channel power	Ec/lo, delay	Individual code EVM	Frequency error	Average amplifier capacity
Channel power, scram-	CPICH dominance		Channel power	Time offset, Rho	
ble code, CPICH power, Ec/lo	Scramble code		Scramble code	Carrier feed-through	Code, peak utilization
	Ec/lo, CPICH power, delay		CPICH, P-CCPCH, S-CCPCH, PICH, P-SCH,	(Composite) EVM	Average utilization
			S-SCH	CPICH EVM, P-CCPCH	Route map
				EVM	CPICH power, Ec/lo

Longitude, latitude, and satellite in all screens

TD-SCDMA Signal Analyzer (Options 025 and 045)

	/ \					
General Parameters						
Frequency range		1.785 GHz to 2.22 GHz				
Input signal level		-40 to +25 dBm				
Channel power (RRC) accuracy		±1.0 dB (typical)				
Modulations		QPSK, 8 PSK, 16 QAM, 64 QAM				
Frequency error		±10 Hz + ref freq accuracy 99% confidence level				
Residual EVM (RMS)		2.0% (typical)	,	P-CCPCH slot and 1 cha	annel	
Time error (Tau)		±0.2 µs (typical)		External trigger		
Spreading factor		Auto (DL, UL), 1, 2, 4, 8,	16			
Measurements						
		Optio	on 025			
Channel power	Lowest reference power	Data power left (TS [0 to 6], DwPTS, UpPTS)	Midamble power	Code power and error	Multi-ACLR	
Channel power	Highest reference power	Midamble power (TS [0 to 6], DwPTS, UpPTS)	Slot power	Individual code EVM and its constellation	Slot power	
Spectral density	Abs power at defined range	Data power right (TS [0 to 6], DwPTS, UpPTS)	DwPTS power	Data format	DwPTS power	
Peak to average power	Rel power at defined range	Time offset (TS [0 to 6], DwPTS, UpPTS)	Midamble power (1 to 16)	Slot, DwPTS power	UpPTS power	
Occupied bandwidth	Spurious emissions	Power vs. time (mask)	Code power	No. of active code	On/off slot ratio	
Occupied bandwidth	Peak frequency at defined range	Slot power	Abs/Rel code power	Scramble code	Frequency error	
Integrated power	Peak level at defined range	On/off slot ratio	Individual code EVM and its constellation	Max active code power	EVM RMS	
Occupied power	Power vs. time (slot)	Off power	Data format	Avg active code power	Peak CDE	
Spectrum emission mask	Slot power	Timogram	Slot power, DwPTS power	Max inactive code power	Max inactive power	
Reference power	DwPTS power	Constellation	No. of active code	Avg inactive code power	Scramble code	
Peak level at defined range	UpPTS power	Rho	Scramble code	Peak CDE and peak active CDE		
ACLR	On/off slot ratio	EVM RMS, EVM peak	Max active code power	Auto measure		
Reference power	Slot PAR	Peak CDE	Avg active code power	Channel power		
Abs power at defined range	DwPTS code	Frequency error	Max inactive code power	Occupied bandwidth		
Rel power at defined range	Power vs. time (frame)	I/Q origin offset	Avg inactive code power	Spectrum emission mask		
Multi-ACLR	Slot power (TS [0 to 6], DwPTS, UpPTS)	Time offset	Code error	ACLR		
		1	on 045			
Sync-DL ID scanner (32)	Pilot dominance	Pilot dominance	Pilot dominance	Pilot dominance	DwPTS Power	
Scramble code group	Sync-DL ID vs. Tau (up to 6)	Sync-DL ID multipath	Sync-DL ID analyzer	EVM, frequency error		
Ec/lo, Tau	ID, power, Ec/lo, Tau	Ec/lo, Tau	DwPTS power, Ec/lo trend	Ec/lo, CINR		
DwPTS power	DwPTS power	DwPTS power	DwPTS power	Route map		

Longitude, latitude, and satellite in all screensTD-SCDMA Signal Analyzer (Option 025)

Mobile WiMAX Signal Analyzer (Options 026 and 046)

General Parameters			
Frequency range	2.1 GHz to 2.7 GHz 3.4 GHz to 3.85 GHz		
Input signal level	-40 to +25 dBm		
Channel power accuracy	±1.0 dB (typical)		
Supported bandwidth	7 MHz, 8.75 MHz, and 10 MHz		
Frequency error	± 10 Hz + ref freq accuracy	99% confidence level	
Residual EVM (RMS)	1.5% (typical)		
Measurements			

		Optic	on 026		
Channel power	Spurious emissions	Constellation	Max, min, avg power	Auto measure	Spectral flatness
Channel power	Peak frequency at defined range	Channel power	EVM vs. subcarrier	Channel power	Frequency error
Spectral density	Peak level at defined range	RCE RMS, RCE peak	RCE RMS, RCE peak	Occupied bandwidth	RCE RMS
Peak to average power	Power vs. time (frame)	EVM RMS, EVM peak	EVM RMS, EVM peak	Spectrum emission mask	RCE peak
Occupied bandwidth	Channel power	Frequency error	Segment ID, cell ID	Spurious emission mask	EVM RMS
Occupied bandwidth	Frame average power	Time offset	Preamble index	Preamble power	EVM peak
Integrated power	Preamble power	Segment ID, cell ID	EVM vs. symbol	DL burst power	Power statistics CCDF
Occupied power	DL burst power	Preamble index	RCE RMS, RCE peak	UL burst power	
Spectrum emission mask	UL burst power	Spectral flatness	EVM RMS, EVM peak	Frame average power	
Reference power	I/Q origin offset	Average subcarrier power	Segment ID, cell ID	Time offset	
Peak level at defined range	Time offset	Subcarrier power variation	Preamble index	I/Q origin offset	
		Optic	on 046		
Preamble scanner (up to 6)	Time offset	Relative power, delay	Preamble power	Preamble	Preamble power
Total preamble power	Multipath profile	Preamble power trend	Frame avg power	Cell ID, sector ID	
Preamble, relative power	Total preamble power	Preamble power trend	Relative power	Time offset	
Cell ID, sector ID	Multipath power	Relative power trend	C/I	Route map	

Longitude, latitude, and satellite in all screens

LTE/LTE-Advanced—FDD Signal Analyzer (Options 028/030 and 048)

General Parameters		
Frequency range	Band 1 to 14, 17 to 26	
Input signal level	-40 to +25 dBm	
Channel power accuracy	±1.0 dB (typical)	
Supported bandwidths	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz	r, and 20 MHz
Frequency error	±10 Hz + ref freq accuracy	99% confidence level
Residual EVM (RMS)	2.0% (typical)	Data EVM
Measurements		

		Option			
Channel power	Power vs. time (frame)	Control channel	Data EVM RMS, peak	Antenna 1 RS power and EVM	PDSCH/Data* 64 QAM EVM
Channel power	Frame average power	Control channel sum-	RS EVM RMS, peak		PDSCH 256QAM EVM
Spectral density	Subframe power	mary (P-SS, S-SS, PBCH,	Cell, group, sector ID	ID Antenna 2 RS power and EVM**	Data EVM RMS, peak
Peak to average power	First slot power	PCFICH, PHICH, PDCCH,	Frame		RS, P-SS, S-SS EVM
Occupied bandwidth	Second slot power	RS, MBSFN*)	MBSFN*	Antenna 3 RS power	RS, P-SS, S-SS power
Occupied bandwidth	Cell ID, I/Q origin offset	EVM, relative or ab-	Frame summary table	and EVM**	PBCH power
Integrated power	Time offset	solute power, modulation type	(P-SS, S-SS, PBCH, PCFICH, PHICH, PDCCH,	Data allocation map	Subframe power
Occupied power	Constellation	Each control channels'	RS, MBSFN*, PDSCH/	Data allocation vs frame	OFDM power
Spectrum emission mask	MBSFN*	I/Q diagram	Data* QPSK, PDSCDH/ Data* 16 QAM, PDSCH/	Resource block power	Time error
Reference power	RS TX power	Modulation format	Data* 64 QAM, PDSCH/	OFDM symbol power	I/Q origin offset
Peak level at defined range	PDSCH/Data* QPSK EVM	Frequency error	Data* 25QAM)	Data utilization	Carrier aggregation**
ACLR	PDSCH/Data* 16 QAM EVM	I/Q origin offset	EVM, relative or absolute power,	Data allocation vs subframe	Component carriers: up to 5
Reference power	PDSCH/Data* 64 QAM EVM	EVM RMS, EVM peak n	modulation type	Resource block power	
	PDSCH 256QAM EVM				
Abs power at defined	Data EVM RMS	Subframe	Frame average power	Data utilization	Subframe power
range	Data EVM peak	MBSFN*	OFDM symbol power	Auto measure	P-SS, S-SS, PBCH, RS
Rel power at defined range	Frequency error	Subframe summary table	Frequency error	Channel power	power and EVM
Multi-ACLR	Time error	(P-SS, S-SS, PBCH,	I/Q origin offset	Occupied bandwidth	PDSCH/Data* QPSK
Lowest reference power	Data channel	PCFICH, PHICH, PDCCH, RS, MBSFN*, PDSCH/	EVM RMS, peak	Spectrum emission mask	power and EVM
Highest reference power	MBSFN*	Data* QPSK, PDSCH/	Data EVM RMS, peak	ACLR	PDSCH/Data* 16 QAM
Abs power at defined	Resource block power	Data* 16 QAM, PDSCH/	Cell, group, sector ID	Multi-ACLR	power and EVM
range	I/Q diagram	Data* 64 QAM, PDSCH/ Data* 25QAM)	Time alignment error	Spurious emission mask	PDSCH/Data* 64 QAM power and EVM
Rel power at defined range	RB power	EVM, relative or absolute power, modulation type	Time alignment error trend	Frame average power	PDSCH 256QAM EVM
Spurious emissions	Modulation format			Time alignment error	Cell ID
Peak frequency at	I/Q origin offset	Subframe power	Time alignment error	Frequency error	Frequency error
defined range	EVM RMS, EVM peak	OFDM symbol power	RS power difference	MBSFN*	Time alignment error
Peak level at defined range		Frequency, time error	Antenna 0 RS power and EVM	PDSCH/Data* QPSK EVM	Antenna port
				PDSCH/Data* 16 QAM EVM	Power statistics CCDF
		Optic	on 048		
Channel scanner (up to 6)	ID scanner (up to 6)	Multipath profile	Control channel table (P-SS, S-SS, PBCH, PC-	PMCH subframe power*	Route map

Channel scanner (up	ID scanner (up to 6)	Multipath profile	Control channel table	PMCH subframe power*	Route map
to 6)			(P-SS, S-SS, PBCH, PC-		
Frequency or channels	RSRP/RSRQ dominance	Cell, group, sector ID	FICH, RS 0, RS 1, RS 2**,	Time alignment error	RSRP
Cell, group, sector ID	S-SS RSSI dominance	Ant 0 RS Ec/lo, delay	RS 3**, MBSFN RS*)	Time offset	RSRQ
Channel power	S-SS Ec/lo dominance	Ant 1 RS Ec/lo, delay		Datagram	RS-SINR
RSRP/RSRQ	Cell, group, sector ID	Ant 2 RS Ec/lo**, delay**	Absolute power	Datagram	S-SS RSSI
RS-SINR	RSRP/RSRQ	Ant 3 RS Ec/lo**, delay**	Relative power	Resource block power	P-SS/S-SS Power
Antenna port	RS-SINR/S-SS RSSI	Control channel	EVM RMS, phase	Data utilization	S-SS Ec/lo
	P-SS/S-SS Power	RS power trend	Frequency error		
	S-SS Ec/lo	Cell, group, sector ID			

Longitude, latitude, and satellite in all screens

*Measurement is performed when MBMS is enabled. **Measurement is performed when option 030 is enabled.

LTE/LTE-Advanced—FDD Signal Analyzer (Options 028/030)

LTE/LTE-Advanced— TDD Signal Analyzer (Options 029/031 and 049)

General Parameters			
Frequency range	Band 33 to 43		
Input signal level	-40 to +25 dBm		
Channel power accuracy	±1.0 dB (typical)		
Supported bandwidth	1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, and 20 MHz		
Frequency error	±10 Hz + ref freq accuracy 99% confidence level		
Residual EVM (RMS)	2.0% (typical)	Data EVM	
Measurements	Measurements		

		Option 02	29/031/033		
Channel power	Spurious emissions	Data EVM peak	Subframe	Antenna 3 RS power and EVM**	PDSCH/Data* 64 QAM EVM
Channel power	Peak frequency at	Frequency error	MBSFN*		PDSCH 256QAM EVM
Spectral density	defined range	Time error	Subframe summary	Cell, group, sector ID	Data EVM RMS, peak
Peak to average power	Peak level at defined	Data channel	table (P-SS, S-SS, PBCH,	Data allocation map	RS, P-SS, S-SS EVM
Occupied bandwidth	range	MBSFN*	PCFICH, PHICH, PDCCH,	Data allocation vs frame	RS, P-SS, S-SS power
Occupied bandwidth	Power vs. time (frame)	Resource block power	RS, MBSFN*, PDSCH/	Resource block power	PBCH power
Integrated power	Frame average power	I/Q diagram	Data* QPSK, PDSCH/	OFDM symbol power	Subframe power
Occupied power	Subframe power	RB power	Data* 16 QAM, PDSCH/ Data* 64 QAM, PDSCH/ Data* 25QAM)	Data utilization	OFDM power
Spectrum emission mask	First slot power	Modulation format	EVM, relative or abso- lute power, modulation	Data allocation vs subframe	Time error
Reference power	Second slot power	I/Q origin offset	type		I/Q origin offset
Peak level at defined	Cell ID, I/Q origin offset	EVM RMS, EVM peak	Subframe power	Resource block power	Carrier aggregation**
range	Time offset	Control channel	OFDM symbol power	Data utilization	Component carriers:
ACLR	Power vs. time (slot)	Control channel sum-	Frequency, time error	Auto measure	up to 5
Reference power	Slot average power	mary	Data EVM RMS, peak	Channel power	Subframe power
Abs power at defined	Transient period length	(P-SS, S-SS, PBCH,	RS EVM RMS, peak	Occupied bandwidth	P-SS, S-SS, PBCH, RS
range	Off power	PCFICH, PHICH, PDCCH, RS, MBSFN*)	Cell, group, sector ID	Spectrum emission mask	power and EVM
Rel power at defined	Constellation	EVM, relative or abso-	Time alignment error	ACLR	PDSCH/Data* QPSK
range	MBSFN*	lute power, modulation type	Time alignment error trend	Mult-ACLR	power and EVM
Multi-ACLR	RS TX power	Each control channels'	Time alignment error	Spurious emission mask	PDSCH/Data* 16 QAM
Lowest reference power	PDSCH/Data* QPSK EVM	I/Q diagram	RS power difference	Slot average power	power and EVM
Highest reference power	PDSCH/Data* 16 QAM EVM	Modulation format	Antenna 0 RS power and EVM	Off power	PDSCH/Data* 64 QAM power and EVM
Abs power at defined	1	Frequency error	1	Transition period	PDSCH 256QAM EVM
range	PDSCH/Data* 64 QAM EVM	I/Q origin offset	Antenna 1 RS power and EVM	Time alignment error	Cell ID
Rel power at defined	PDSCH 256QAM EVM	EVM RMS, EVM peak	1	MBSFN*	Frequency error
range	Data EVM RMS		Antenna 2 RS power and EVM**	PDSCH/Data* QPSK EVM	Time alignment error
]	PDSCH/Data* 16 QAM	Antenna port
				EVM	Power statistics CCDF

Channel scanner	ID scanner (up to 6)	Multipath profile	Control channel	EVM RMS, phase	Route map
(up to 6)	RSRP/RSRQ dominance	Cell, group, sector ID	RS power trend	Frequency error	RSRP
Frequency or channels	S-SS RSSI dominance	Ant 0 RS Ec/lo, delay	Cell, group, sector ID	PMCH subframe power*	RSRQ
Cell, group, sector ID	S-SS Ec/lo dominance	Ant 1 RS Ec/lo, delay	Control channel table	Time alignment error	RS-SINR
Channel power	Cell, group, sector ID	Ant 2 RS Ec/lo**, delay**	(P-SS, S-SS, PBCH, PC- FICH, RS 0, RS 1, RS 2**,	Time offset	S-SS RSSI
RSRP/RSRQ	RSRP/RSRQ	Ant 3 RS Ec/lo**, delay**	RS 3**, MBSFN RS*)	Datagram	P-SS, S-SS power
RS-SINR	RS-SINR/S-SS RSSI			Datagram	S-SS Ec/lo
Antenna port	P-SS/S-SS power		Absolute power	Resource block power	
	S-SS Ec/lo		Relative power	Data utilization	

Longitude, latitude, and satellite in all screens

*Measurement is performed when MBMS is enabled.

 $^{\star\star}Measurement$ is performed when option 031 is enabled.

NB-IoT Signal Analyzer (Option 034)

General Parameters				
Operation Mode	In Band, Guard band, and Stand	alone		
Input signal level	-40 to +25 dBm			
Channel power accuracy	Channel power accuracy ±1.0 d	3 (typical)		
Supported bandwidths	180 kHz			
Anchor Carrier definition	PRBS Index or frequency	PRBS Index or frequency		
Measurement Type	Frame, Subframe			
Frequency error	±10 Hz + ref freq accuracy	99% confidence level		
Residual EVM (RMS)	2.0% (typical)	2.0% (typical) Data EVM		
Measurement				

	Option 034				
RF Analysis		Modulation Analysis			
Channel Power	Spectrum Emission Mask	IQ Diagram			
Channel power	Reference Power	Constellation diagram, Modulation Format, Frequency error, IQ Origin			
Spectral density	Peak level at defined range	– offset, EVM RMS/Peak			
Peak to average Power	ACLR				
Occupied bandwidth	Reference Power	Channel Summary			
Occupied Bandwidth	Abs. power at defined range	EVM, Power (dBm), and Modulation type of: Frame (Subframe) Power			
Integrated Power	Rel. power at defined range	NPSS, NSSS, NPBCH, NPDSCH, NRS0 (NRS1), PCI			
Occupied power	Spurious Emission				
	Peak frequency at defined range				
	Peak level at defined range				

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 EMF Power: AVG, Max, Min	Accumulated Isotropic EMF Power: AVG,	
Isotropic Accumulated		Max, Min	

General Information

Frequency			
RF In Connector Impedance Damage level	Spectrum analyzer Type-N, female 50 Ω (nominal) >+33 dBm, ±50 V DC (nominal), 3 min		
RF Out Connector Impedance Damage level	Type-N, female 50 Ω (nominal) >+40 dBm, ±50 V DC (nominal), 3 min		
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		
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	1		
Туре	Resistive touch scre	een	
Size	8 inch, LED backlig with anti-glare coa	ht, transflective LCD ting	
Resolution	800 x 600		
Power			
External DC input	18 to 19 V DC		
Power consumption	37 W	49 W maximum (when charging battery)	
Battery			
Туре	10.8 V, 7800 mA/hr (lithium ion)		
Operating time	>3 hours (typical)		
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% F		31°F) ≤85% RH	
Storage temperature0 to 25°C (32 to 77°F)≤85% RH (noncondensing)			

Data Storage	Maximum 100 MB
External ⁵	Limited by size of USB flash drive
Environmental	Limited by size of 05b hash drive
Operating Temperature	
AC Power	0 to 40C (without derating on batter charging)
	-10 to 55C (with derating on battery charging)
Battery Operation	0 to 40C (without derating on batter 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 (com	plies with European EMC)
CISPR11:2009 +A1:2010	
ESD	
IIEC/EN 61000-4-2	
Size and Weight (standa	ard configuration)
Weight (with battery)	< 3.6 kg (7.9 lb)
Size (W x H x D)	295 x 195 x 82 mm (11.6 x 7.7 x 3.2 in)
Warranty	
3 years	
Calibration Cycle	
1 year	
. Connects flash drive, power sen 2. Data transfer and PC Applicatio 3. Data transfer or PC Application/	

5. Supports USB 2.0 compatible memory devices. (FAT and FAT32 compatible)

6. With the battery pack removed

Ordering Information

Description	Part Number
Standard CellAdvisor JD788A Signal Analyzer	
Signal analyzer includes: Spectrum analyzer 9 kHz to 8 GHz RF power meter 10 MHz to 8 GHz	JD788A1
Options	L
Note: Upgrade options for the JD788A use the design before the respective last three-digit option number	nation JD788AU
2 Port transmission measurements for JD788A	JD788A001
CW signal generator for JD788A	JD788A003
Bluetooth connectivity for JD788A	JD788A0162
High power CW signal generator for JD788A	JD788A007
20 MHz demodulation hardware for JD788A	JD788A0093
GPS receiver and antenna for JD788A	JD788A010
Interference analyzer for JD788A	JD788A0114,5
Channel scanner for JD788A	JD788A012
LTE-FDD RAN performance indicator for JD788A	JD788A014 ^{6,7}
LTE-TDD RAN performance indicator for JD788A	JD788A015 ^{7,8}
Wi-Fi connectivity for JD788A	JD788A0169
cdmaOne/cdma2000 analyzer for JD788A	JD788A0207
EV-DO analyzer for JD788A	JD788A0217,10
GSM/GPRS/EDGE analyzer for JD788A	JD788A0227
WCDMA/HSPA+ analyzer for JD788A	JD788A0237
TD-SCDMA analyzer for JD788A	JD788A0257
Mobile WiMAX analyzer for JD788A	JD788A0267
LTE - FDD analyzer for JD788A	JD788A0287,11
LTE - TDD analyzer for JD788A	JD788A0297,11
LTE Advanced - FDD analyzer for JD788A	JD788A030712,1
LTE Advanced - TDD analyzer for JD788A	JD788A0317,13,14
256QAM Demodulator for LTE-FDD	JD788A032715
256QAM Demodulator for LTE-TDD	JD788A0337,16
NB-IoT Analyzer for JD788A	JD788A034712
cdmaOne/cdma2000 OTA analyzer for JD788A	JD788A0407,17
EV-DO OTA analyzer for JD788A	JD788A0417,17
GSM/GPRS/EDGE OTA analyzer for JD788A	JD788A0427,17
WCDMA/HSPA+ OTA analyzer for JD788A	JD788A0437,17
TD-SCDMA OTA analyzer for JD788A	JD788A0457,17
Mobile WiMAX OTA analyzer for JD788A	JD788A0467,17
LTE - FDD OTA analyzer for JD788A	JD788A0487,17
LTE - TDD OTA analyzer for JD788A	JD788A0497,17
EMF Analyzer for JD788A	JD788A05018
Calibration service for Asia and North America for JD788A	JD788A20019
Calibration service for Latin America and EMEA for JD788A	JD788A20119
Warranty extension of 1 year for Asia and North America for JD788A	JD788A250
Warranty extension of 1 year for Latin America and EMEA for JD788A	JD788A251

Description	Part Number
Optional Accessories	
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 - 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 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), 700 to 4000 MHz, 1.85 dBd	G700050366
RF yagi antenna SMA(f), 700 to 6000 MHz, 2.85 dBd	G700050367
Isotropic Antenna Type-N(m), 26 MHz to 3 GHz	G700050380

Ordering Information Continued

Description Dart Number					
Description	Part Number				
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	JD736B				
Accessory - RF Adapters (Connector & Adapters)					
Adapter Type-N(m) to DIN(f), DC to 7.5 GHz, 50 Ω	G700050571				
Adapter DIN(m) to DIN(m), DC to 7.5 GHz, 50 Ω	G700050572				
Adapter Type-N(m) to SMA(f) DC to 18 GHz, 50 Ω	G700050573				
Adapter Type-N(m) to BNC(f), DC to 4 GHz, 50 Ω	G700050574				
Adapter Type-N(f) to Type-N(f), DC to 18 GHz 50 Ω	G700050575				
Adapter Type-N(m) to DIN(m), DC to 7.5 GHz, 50 Ω	G700050576				
Adapter Type-N(f) to DIN(f), DC to 7.5 GHz, 50 Ω	G700050577				
Adapter Type-N(f) to DIN(m), DC to 7.5 GHz, 50 Ω	G700050578				
Adapter DIN(f) to DIN(f), DC to 7.5 GHz, 50 Ω	G700050579				
Adapter Type-N(m) to Type-N(m), DC to 11 GHz 50 Ω	G700050580				
Adapter N(m) to QMA(f), DC to 6.0 GHz, 50 Ω	G700050581				
Adapter N(m) to QMA(m), DC to 6.0 GHz, 50 Ω	G700050582				
Adapter N(m) to 4.1/9.5 MINI DIN (f), DC to 6.0 GHz, 50 Ω	G700050583				
Adapter N(m) to 4.1/9.5 MINI DIN (m), DC to 6.0 GHz, 50 Ω	G700050584				
Adapter N(m) to 4.3-10 (f), DC to 6.0 GHz, 50 Ω	G700050585				
Adapter N(m) to 4.3-10 (m), DC to 6.0 GHz, 50 Ω	G700050586				
Adapter Type-N(m) to DIN(f), DC to 4 GHz, 50 Ω	G710050571				
Adapter N(f) to N(f), DC to 4 GHz, 50 Ω	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 Ω	G710050578				

Description	Part Number			
Accessory - RF Miscellaneous (General)				
Attenuator 40 dB, 100 W, DC to 4 GHz (unidirectional)	G710050581			
RF directional coupler, 700 to 4000 MHz, 30 dB, 50 W Input/output; Type-N(m) to Type-N(f), tap off; Type-N(f)	G710050585			
RF combiner, 700 to 4000 MHz, Type-N(f) to Type-N(m)	G710050586			
4x1 RF combiner, 700 to 4000 MHz, Type-N(f) to Type-N(m)	G710050587			
Bandpass filter 696 MHz to 716 MHz, N(m) to N(f), 50 Ω	G700050601			
Bandpass filter 776 MHz to 788 MHz, N(m) to N(f), 50 Ω	G700050602			
Bandpass filter 806 MHz to 849 MHz, N(m) to N(f), 50 Ω	G700050603			
Bandpass filter 1710 MHz to 1755 MHz, N(m) to N(f), 50 Ω	G700050604			
Bandpass filter 1850 MHz to 1910 MHz, N(m) to N(f), 50 Ω	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			
USB Wi-Fi Dongle	JD70050008			
GPS antenna for JD740 and JD780 series	JD71050351			
AntennaAdvisor handle	JD70050007			
Cross LAN cable (6ft)	G700550335			
USB A to B cable (1.8m)	GC73050515			
> 1GB USB memory	GC72450518			
Stylus pen	1			

Ordering Information Continued

Description	Part Number			
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				
JD780A series user's manual - printed version	JD780A362			
JD780A series Korean quick guide - printed version	JD780A363			
Accessory - Carrying Case				
General soft carrying case	G700050341			
Soft carrying case	JD74050341			
Hard carrying case	JD71050342			
Hard carrying case with wheels	JD70050342			
CellAdvisor backpack carrying case	JD70050343			

 Supplied accessories: User's Guide, USB Memory (1GB), Cross LAN Cable, USB Cable, DC car adapter, Li-Ion Battery, AC/DC adapter, Stylus Pen

2. Includes a Bluetooth USB dongles with 5 dBi dipole antennas (JD70050006)

3. Needs options 020, 021, 022, 023, 025, 026, 028, 029, 030, 031, 032, 033, 040, 041, 042,

- 043, 045, 046, 048, 049 4. Needs Omni or Yagi antenna
- 5. Highly recommended adding option 010
- 6. Requires option 006 and option 028 and Needs TrueSite(FTA)
- 7. Requires option 009
- 8. Requires option 006 and option 029 and Needs TrueSite(FTA)
- 9. Includes a Wi-Fi USB dongle
- 10. Requires option 020
- 11. Highly recommended using the RF Directional Coupler or RF combiner (G710050585 or G710050586)
- 12. Requires option 028
- 13. Highly recommended using the 4x1 RF combiner (G710050587)
- 14. Requires option 029
- 15. Requires option 030
- 16. Requires option 031
- 17. Requires option 010
- 18. Requires G700050380
- 19. Requires factory return

VIAVI Care Support Plans

Increase your productivity for up to 5 years with optional VIAVI Care Support Plans:

• 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.

Features

reatures *5-yea							year plans only
Plan	Objective	Technical Assistance	Factory Repair	Priority Service	Self-paced Training	5 Year Battery and Bag Coverage	Factory Calibration
BronzeCare	Technician Efficiency	Premium	\checkmark	\checkmark	\checkmark		
SilverCare	Maintenance & Measurement Accuracy	Premium	\checkmark	\checkmark	\checkmark	√*	\checkmark



