

Data Sheet

VIAMI

CellAdvisor™

JD786A 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 dBc/Hz (-102 dBc/Hz, typical)
100 kHz	-105 dBc/Hz (-112 dBc/Hz, typical)
1 MHz	-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 JD786A 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	-150 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	0.1 dB	
Linear scale	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	0 to 200 s
Resolution	6 μ s
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.

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	$\pm(0.3 + 20\log(1+10-EP/20))$ (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	1 to 65
Return loss range	0 to 60 dB
Resolution	0.01
Distance to Fault (DTF)	
Vertical VSWR range	1 to 65
Vertical return loss range	1 to 60 dB
Vertical resolution	0.01
Horizontal range	0 to (# of data points – 1) x horizontal resolution Maximum = 1500 m (4921 ft)
Horizontal resolution	$(1.5 \times 10^8) \times (V_p)/\Delta$ V_p = propagation velocity Δ = stop freq – start freq (Hz)
Cable Loss (1-Port)	
Range	0 to 30 dB
Resolution	0.01 dB
1-Port Phase	
Range	–180 to +180°
Resolution	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

2-Port Transmission Measurements (Option 001)

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

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	-120 to 100 dB
Resolution	0.01 dB
2-Port Phase	
Range	-180 to +180°
Resolution	0.01°

Bias-Tee (Option 002)

Voltage	
Voltage range	+12 to +32 V
Voltage resolution	0.1 V
Power	
8 W Max	

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	
	Latitude, longitude, altitude
High-Frequency Accuracy	
Spectrum, interference, and signal analyzer	
GPS lock	±10ppb
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	dB μ V/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

General Information

Inputs and Outputs	
RF in Connector Impedance Damage level	Spectrum analyzer Type-N, female 50 Ω (nominal) >+33 dBm, \pm 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, \pm 50 V DC (nominal), 3 min
RF in Connector Impedance Damage level	Cable and antenna analyzer Type-N, female 50 Ω (nominal) >+25 dBm, \pm 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
LAN ³	RJ45, 10/100Base-T
E1/T1	RJ45
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, transfective LCD with anti-glare coating
Resolution	800 x 600
Power	
External DC input	18 to 19 V DC
Power consumption	37 W 49 W maximum (when charging battery)
Battery	
Type	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) \leq 85% RH
Discharging temperature	-20 to 55°C (4 to 131°F) \leq 85% RH
Storage temperature	0 to 25°C (32 to 77°F) \leq 85% RH (noncondensing)

Data Storage	
Internal ⁴	Maximum 100 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)	<4.3 kg (9.5 lb)
Size (W x H x D)	295 x 195 x 82 mm (11.6 x 7.7 x 3.2 in)
Calibration Cycle	
1 year	

1. Connects flash drive, power sensor, EZ-Cal kit, and fiber microscope
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
5. temperature above 45°C could significantly degrade battery performance and life
6. Supports USB 2.0 compatible memory devices. (FAT and FAT32 compatible)
7. With the battery pack removed

Ordering Information

Description	Part Number
Standard CellAdvisor JD786A RF Analyzer	
RF 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	JD786A ^{1,2}
Options Note: Upgrade options for the JD786A use the designation JD786AU before the respective last three-digit option number	
2 port transmission measurements for JD786A ³	JD786A001
Bias tee for JD786A ⁴	JD786A002
CW signal generator for JD786A	JD786A003
Bluetooth connectivity for JD786A ⁵	JD786A006
High power CW signal generator for JD786A	JD786A007
GPS receiver and antenna for JD786A	JD786A010
Interference analyzer for JD786A ^{6,7}	JD786A011
Channel scanner for JD786A	JD786A012
Wi-Fi connectivity for JD786A ⁸	JD786A016
EMF analyzer for JD786A ⁹	JD786A050
Calibration service for Asia and North America for JD786A	JD786A200
Calibration service for Latin America and EMEA for JD786A	JD786A201
Warranty extension of 1 year for Asia and North America for JD786A	JD786A250
Warranty extension of 1 year for Latin America and EMEA for JD786A	JD786A251
Optional Accessories	
Accessory - RF Calibrators (General)	
Y- calibration kit Type-N(m), DC to 6 GHz, 50 Ω	JD78050509
Y- calibration kit DIN(m), DC to 6 GHz, 50 Ω	JD78050510
EZ-Cal kit Type-N(m), DC to 6 GHz, 50 Ω	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
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

Description	Part Number
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
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 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

Ordering Information (Continued)

Description	Part Number
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 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 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

Description	Part Number
> 1GB USB memory	GC72450518
Stylus pen	G710550316
Accessory - Battery & Chargers	
Rechargeable lithium ion battery	G710550325
AC/DC Power adapter	G710550326
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

1. 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. Highly recommended using the Calibration Kit (JD78050509)
3. Highly recommended using the Calibration Kit (JD78050507) and Bias Tee (option 002)
4. Requires option 001
5. Includes a Bluetooth USB dongles with 5 dBi dipole antennas (JD70050006)
6. Needs Omni or Yagi antenna
7. Highly recommended adding option 010
8. Includes a Wi-Fi USB dongle
9. Requires G700050380

VIAMI Care Support Plans

Increase your productivity for up to 5 years with optional VIAMI 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.

Plan availability depends on product and region. Not all plans are available for each product or in every region. To find out which VIAMI 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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