


















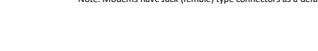



PulseLarsen Antennas		Pulse Cross Reference Antenna Table for Cellular (+4G) Modems (Gateways, Routers)					Fixed/Indoor Antennas		REV21C	Vehicular/Weatherproof Antennas*				11/19/2018
MFC	Production line	Category	Model	Application	External Ant. Connector	Photo	Cellular WWAN	GPS or WiFi	No Ground Plane	Low Profile	Best Performance	Balanced Performance		
Sierra Wireless	Airlink gateway	Mobile gateway	GX450	4G (2); GPS (1); WiFi (Opt)	3 SMA (Primary; secondary/Diversity); GPS; Optional: 1 RP-SMA (WiFi @front)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi, Swivel Best: W1043, WiFi, Fixed IP65: W5028x, W5029x WiFi, Swivel IP67: W5098 GPS: GPSGMSMA	JAG32011DM, WiFi: GPSLPMB401	ARM32011DM, WiFi: ARM42111DM	RAZ32011DM, WiFi: RAZ42111DM	GPSMB301, WiFi: GPSMB501		
		Enterprise gateway	ES450	4G (2)	2 SMA (Primary; secondary/diversity)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ22001DM	GPSMB301		
		Dual ethernet gateway	LX60	4G (2); GPS (1); WiFi (1)	3 SMA (cellular; diversity; GPS); 1 RP-SMA (WiFi)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi, Swivel Best: W1043, WiFi, Fixed IP65: W5028x, W5029x WiFi, Swivel IP67: W5098 GPS: GPSGMSMA	JAG42111DM	ARM42111DM	RAZ42111DM	GPSMB501		
		4G Industrial gateway	Raven RV50/RV50X	4G (2); GPS (1)	3 SMA (Primary; Diversity; GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	JAG32011DM	ARM32011DM	RAZ32011DM	GPSMB301		
	Vehicle networking/ InMotion solutions	High performance vehicle router	MP70	WiFi (3); LTE (2); GNSS (1)	3 RP-SMA (WiFi); 2 SMA (Cellular; diversity; GPS)		-	-	JAG62311DM	ARM62311DM	RAZ62311DM	Two sets of GPSMB501		
		High performance dual LTE vehicle networking platform	MG90	1st LTE (2), 2nd LTE (2), 1st WiFi (3), 2nd WiFi (3), GNSS (1), BT (1)	4 SMA (cellular), 6 RP-SMA (WiFi), 1 SMA (GNSS), 1 RP-SMA(BT)		-	-	Two sets of JAG62311DM, Bluetooth: SB24003	Two sets of ARM62311DM, Bluetooth: SB24003	Two sets of RAZ62311DM, Bluetooth: SB24003	Three sets of GPSMB501, Bluetooth: SB24003		
Calamp	Commercial Gateway	Enterprise fixed	CDM-5030	3G/4G	2 SMA (Main; Diversity)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ22001DM	GPSMB301		
	Industrial Routers	Mission critical multinetwork	Fusion	4G/3G (4), GPS (1), WiFi (3)	3 RP-SMA (WiFi), 2 SMA (WWAN), 1 SMA (GPS)		-	-	A set of 1 JAG62311DM and 1 W1919	A set of 1 ARM62311DM and 1 ARM22001DM	A set of 1 RAZ62311DM and 1 RAZ22001DM	Two sets of GPSMB501 and 1 PAN22001DM		
		Multi carrier 3G	Vanguard 3000	3G (2), GPS (Opt.), WiFi (Opt.)	2 SMA (Main; Diversity) 1 SMA (GPS, Opt.), 1 RP-SMA (WiFi, Opt.)		-	-	W1919, GPS, WiFi: GPSLPMB401	ARM22001DM, GPS, WiFi: ARM42111DM	RAZZ22001DM, GPS, WiFi: RAZ42111DM	GPSMB301, GPS, WiFi: GPSMB501		
	Commercial Routers	Broadband 4G LTE	Vanguard 5530	4G (2), GPS (Opt.), WiFi (Opt.)	3 SMA (Main; Diversity) 1 SMA (GPS, Opt.), 1 RP-SMA (WiFi, Opt.)		-	-	W1919, GPS, WiFi: GPSLPMB401	ARM22001DM, GPS, WiFi: ARM42111DM	RAZZ22001DM, GPS, WiFi: RAZ42111DM	GPSMB301, GPS, WiFi: GPSMB501		
3G/4G Broadband		LMU-5530	3G/4G (2), GPS (1), WiFi (1)	2 SMA (Main; Diversity) 1 SMA (GPS), 1 RP-SMA (WiFi)		-	-	GPSLPMB401	ARM42111DM	RAZ42111DM	GPSMB501			
Cradle Point	IOT/M2M & Transportation Solution	Affordable M2M	COR IBR350	4G/LTE	2 SMA (Main; Aux)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ22001DM	GPSMB301		
		The heart of M2M network	COR IBR600	4G/LTE (2), 2.4G WiFi (2), GPS (1)	2 SMA (Main, Aux), 2 RP-SMA (WiFi), 1 SMA (GPS)		-	2.4GHz, Short: W1030, 2.4GHz, Best: W1038, GPS: GPSGMSMA WiFi, Swivel Best: W1043,	JAG52211DM	ARM52211DM	RAZ52211DM	GPSMB501		
		In-Vehicle & M2M/ IoT+DT	COR IBR900	4G/LTE (2), 2.4/5 GHz WiFi (2), GPS (1)	2 SMA (Main, Aux), 2 RP-SMA (dual WiFi), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi, Fixed IP65: W5028x, W5029x WiFi, Swivel IP67: W5098 GPS: GPSGMSMA	JAG52211DM	ARM52211DM	RAZ52211DM	GPSMB501		
		Cloud-manged networking for vehicle	COR IBR1100	4G/LTE (2), 2.4/5 GHz WiFi (2), GPS (1)	2 SMA (Main, Aux), 2 RP-SMA (dual WiFi), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi, Fixed IP65: W5028x, W5029x WiFi, Swivel IP67: W5098 GPS: GPSGMSMA	JAG52211DM	ARM52211DM	RAZ52211DM	GPSMB501		
MultiTech	Multi Connect® conduit	Programmable gateway for the internet of things	MTCDT-Lxxx	LTE: 800/850/850(B5)/2100(B1), HSPA+ 1800/1900/2100	2 SMA (cellular)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ22001DM	GPSMB301		
	Cellular modems	Fast, secure data for remote operations	MultiConnect® cell 100 series	3G/2G	2 SMA (cellular)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ22001DM	GPSMB301		
	Cellular routers	Remote device management optimized for M2M communications	MultiConnect® rcell 100 series	3G (1) and optional WiFi/BT (1) and GPS (1)	1 SMA (cellular) 1 SMA (GPS, Opt.) 1 RP-SMA (WiFi, Opt.)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi, Swivel Best: W1043, WiFi, Fixed IP65: W5028x, W5029x WiFi, Swivel IP67: W5098 GPS: GPSGMSMA	JAG31111DM	ARM31111DM	RAZ31111DM	GPSMB501		
	LTE cellular routers	LTE cellular router with WiFi for Europe	MultiConnect® rcell 500 series	4G/3G/2G (2) and 802.11b/g/n (2)	2 SMA (cellular) 2 RP-SMA (WiFi)		-	-	LPMB401	ARM42201DM	RAZ42201DM	GPSMB501		
Industrial WiFi radio	Industrial WiFi radio	NTRON 702-W (IP30)	802.11a/b/g/n	3 antennas 2.4 GHz & 5 GHz (needs RPSMA male)		-	Best: W1043, IP65: W5028x, IP67: W5098	-	-	-	-	-		
		NTRON 702M12-W (IP67)												
		RAM 6900 industrial cellular RTU											RAM6900/ RAM6901/ RAM6921/ RAM6901EB	4G with fall back to 3G + GPS
	RAM 6600 industrial cellular RTU	RAM6600/ RAM6601/ RAM6621/ RAM6601EB	3G CDMA (for Spring/VZ only 900/1900 MHz) - for other operators	2 antennas (needs SMA male)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ22001DM	GPSMB301			

Part Number Naming Rules												
A	R	M	4	2	1	1	1	D	M	A	C	A
Three Letters for Antenna Family			No. of all cables	No. of LTE Ant	No. of WiFi Ant	No. of GNSS Ant	Color Code: 1: Black 2: White	Mounting Options: DM: Direct Mount MM: Magnetic Mount AM: Adhesive Mount		Optional P/N for OEM or special customer request.		
Available Antenna Family Abbreviation			ARM PAN	ARMADILLO PANTHER (GPSMB)	JAG SKF	JAGUAR (LPMB) SHARK FIN (GPSDM)	RAZ DSC	RAZORBACK DISC (W4165)				

Default Cable assembly for Catalog											
Family	able length	Cable type						Connector type			
		LTE/ISM	WiFi	GNSS	LTE/ISM	WiFi	GNSS	LTE/ISM	WiFi	GNSS	
ARM	17ft	LMR195	LMR195	RG174	SMA	RP-SMA	SMA				
RAZ	17ft	LMR195	LMR195	RG174	SMA	RP-SMA	SMA				
PAN	17ft	RG58	RG58	RG174	SMA	RP-SMA	SMA				
SKF	17ft	RG58	RG58	RG174	SMA	RP-SMA	SMA				
JAG	10ft	LMR195	LMR195	RG174	SMA	RP-SMA	SMA				
DSC	13ft	RG58	NA	RG174	SMA	NA	SMA				

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MFC	Production line	Category	Model	Application	External Ant. Connector	Photo	Cellular WWAN	GPS or WiFi	No Ground Plane	Low Profile	Best Performance	Balanced Performance	
Redlion	RAM 6800 industrial cellular RTU	Industrial Cellular RTU	RAM6800/ RAM6801/ RAM6821/ RAM6801EB	3G GSM	2 antennas (needs SMA male)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ2001DM	GPSMB301	
	RAM 9000 industrial cellular RTU	2 port cellular and WiFi	RAM9xx	4G (2) + WiFi (1) + GPS (1)	1 SMA male (GPS) 2 SMA male (4G) 1 RP-SMA male (WiFi)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029x, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	GPSLPMB401	ARM42111DM	RAZ42111DM	GPSMB501	
	IndustrialPro SN 6000 cellular routers	Rugged industrial router	SN6900/SN6901/ SN6921/SN6901EB/ SN6700/SN6701/ SN6701EB/SN6721	4G	2 SMA male		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ2001DM	GPSMB301	
	IndustrialPro SN 6000 cellular routers	Rugged industrial router	SN6600/SN6601/ SN6621/SN6601EB	3G CDMA	2 SMA male - 850/900/1800/1900/ 2100 MHz		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ2001DM	GPSMB301	
	IndustrialPro SN 6000 cellular routers	Rugged industrial router	SN6800/SN6801/ SN6821/SN6801EB	3G GSM	2 SMA male - 850/900/1800/1900/ 2100 MHz		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ2001DM	GPSMB301	
Cloudgate	Cellular gateway	Based on OPTiON radio GTMS89W	3G America, 3G EMEA, 3G JP/APAC	3G main + diversity (2) or 3G main + GPS (2) + 802.11 a/b/g/n (Opt.)	1 SMA (cellular) 1 SMA (cellular or GPS) 1 RP-SMA (WiFi, Opt.)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029x, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	JAG32011DM WiFi: GPSLPMB401	ARM32011DM WiFi: ARM42111DM	RAZ32011DM WiFi: RAZ42111DM	GPSMB301 WiFi: GPSMB501	
	Cellular gateway	Based on TELIT LN930	LTE WW	4G with 2G/3G as 3G/4G main+diversity (2) or 3G/4G main + GPS (2) + 802.11 a/b/g/n (Opt.)	1 SMA (cellular) 1 SMA (cellular or GPS) 1 RP-SMA (WiFi, Opt.)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029x, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	JAG32011DM WiFi: GPSLPMB401	ARM32011DM WiFi: ARM42111DM	RAZ32011DM WiFi: RAZ42111DM	GPSMB301 WiFi: GPSMB501	
TeleDesign Systems	Industrial modem	High performanc radio modem	TS4000	VHF: TS4000-05C UHF: TS4000-05E, TS4000-05F, TS4000-02A, TS4000-05B 900MHz: TS4000-05D	1 connector, options: BNC (standard) TNC (watertight) N (optional) SMA (optional)		VHF: NMOWB150B, NMOWBQB UHF: LM406C, OM406BCO, SB450, NMOWB450C, LP490NMO 900MHz: LM900, LP800, MS3E900, NMO5E900B, MM5T900SMA, OM900,						
	4G cellular LTE router	Critical infrastructure and industrial	Digi Transport WR31	4G	2 SMA male		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ2001DM	GPSMB301	
Digi Spectrum	3G/4G cellular LTE router	Industrial/retail	Digi Transport WR11	3G/4G Cellular LTE router	2 SMA male		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ2001DM	GPSMB301	
	Cellular router	Low cost flexible compact 3G/4G for M2M	Digi Transport WR21	4G with fallback to 3G or 2G as needed	2 SMA male		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ2001DM	GPSMB301	
	Ethernet gateway	Industrial-grade programmable XBee* to IP gateways	Connect Port X2	802.15.4: XBee* 2.4 GHz or 868 MHz or 915 MHz	1 RP-SMA male		-	Great: W10130, W5001, W5021 Best: W1027, W1063	-	-	-	-	
	Enterprise class cellular router for remote and	3G/4G LTE and WiFi	Digi Transport WR41	4G with fallback to 3G or 2G as needed (2), WiFi (2), GPS (Opt.)	2 SMA (cellular) 2 RP-SMA (WiFi) 1 SMA (GPS, Opt.)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029x, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	LPMB401 GPS: JAG52211DM	ARM42201DM GPS: ARM52211DM	RAZ42201DM GPS: RAZ52211DM	GPSMB501	
	Enterprise class commercial grade WiFi to cellular		Digi Transport WR44	4G with fallback to 3G or 2G as needed (2), WiFi (2), GPS (Opt.)	2 SMA (cellular) 2 RP-SMA (WiFi) 1 SMA (GPS, Opt.)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029x, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	LPMB401 GPS: JAG52211DM	ARM42201DM GPS: ARM52211DM	RAZ42201DM GPS: RAZ52211DM	GPSMB501	
	Small cellular routers with integrated VPN	HSPA+	Digi connect WAN family	HSPA+ (U9) - 850/900/1700(AWS)/1900/2100	2 SMA (cellular)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZZ2001DM	GPSMB301	
	Gateway for distribution automation	IP66 design for withstanding elements	Digi utility communication hub with 4G LTE	LTE (2) and WiFi (1)	2 SMA (cellular) 1 RP-SMA (WiFi)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	Best: W1043, IP65: W5028x, W5029x IP67: W5098	JAG32101DM	ARM32101DM	RAZ32101DM	GPSMB501	
	ConnectPort X4/X4 H	Commercial/Industrial-grade 3G customizable routing gateways	ConnectPort X4/X4 H	2G/3G (1 or 2) + 802.15.4: XBee* 2.4 GHz or 868 MHz or 915 MHz (1)	1 or 2 SMA (cellular) 1 RP-SMA (XBee* 2.4 GHz/868 MHz or 915 MHz)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700 Shorter: W1900	Great: W10130, W5001, W5021 Best: W1027, W1063	-	-	-	-	
	WESTERMO	Industrial Routers	Industrial Mobile Broadband Router	MRD455 4G	4G (2) and GPS (1)	Maximum 2 SMA +1 GPS		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	Glass: GPSGMSMA, Direct: GPSDM08, Magnetic: GPS0010, NMO: GPSNMO10	JAG32011DM	ARM32011DM	RAZ32011DM	GPSMB301
				MRD355 3G MRD315 3G router	3G (2) and GPS (1)	Maximum 2 SMA +1 GPS		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	-	-	-	-
MRD3015DIN 3G M2M MR210 2G router MR260 3G router MR270 3G router				Cellular (1) and GPS (1)	Maximum 2 SMA		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700 Shorter: W1900	-	W1919	ARM22001DM	RAZZ2001DM	GPSMB301	
GPRS Modem		Heavy duty industrial modem	GDW11 485 MRD series	3G	1 SMA		Great: SPDA24700/2700, Best: W5095K, Shorter: W1900	-	-	-	-	-	

Note: Modems have Jack (female) type connectors as a default. Pulse antenna cables have plug (male) type connectors as a default.

*All RAZ, ARM, and JAG type antennas can be ordered with up to 2 LTE antennas, up to 3 WiFi antennas, and up to 1 GNSS antenna, as well as colored black or white. Antennas also come in three mounting styles, Direct Mount (DM), Adhesive Mount (AM), and Magnetic Mount (MM). These antennas can be ordered following the adjacent simplified part naming structure for customer's particular needs and ease of use.

PulseLARSEN Antennas		Pulse Cross Reference Antenna Table for Cellular (+4G) Modems (Gateways, Routers)						Fixed/Indoor Antennas		REV21C	Vehicular/Weatherproof Antennas*				11/19/2018
MFC	Production line	Category	Model	Application	External Ant. Connector	Photo	Cellular WWAN	GPS or WiFi	No Ground Plane	Low Profile	Best Performance	Balanced Performance			
Motorola Solutions	LTE Modem	LTE	VML750	4G LTE with B14 (2), WiFi (2), GPS (1)	2 SMA (WWAN1), 2 SMA (WWAN2), 1 SMA (GPS)		-	-	JAG52211DM	ARM52211DM	RAZ52211DM	PAN52211DM			
	LTE Modem	LTE	NTC-140W-01 (North America)	3G/4G (2), WiFi (2), GPS/GLONASS (1)	2 SMA (cellular), 2 RP-SMA (WLAN), 1 SMA (GPS)		-	-	JAG52211DM	ARM52211DM	RAZ52211DM	GPSMB501			
Netcomm	AR Series gateways	Gateway designed for industrial environments	AR502 Aeries agile gateways	4G/3G/2G	SMA (Female)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	JAG11001AM	ARM11001DM	RAZ11001DM	GPSMB301			
			AR503 Aeries agile gateways	4G/3G (2), WiFi (2), GPS (1)	2 SMA (cellular), 2 RP-SMA (WLAN), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K	WiFi: W1043, W5028x, W5029x, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	JAG52211AM	ARM52211DM	RAZ52211DM	GPSMB501			
			AR509 Aeries agile gateways	4G/3G	2 SMA (main, diversity)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	W1919	ARM22001DM	RAZ22001DM	GPSMB301			
Hua Wei	AR G3 Series routers	Gateway designed for mobile applications	AR510 Aeries agile gateways	4G/3G (2), 802.11a/b/g/n (1) GPS (1)	2 SMA (cellular), 2 RP-SMA (WLAN), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029x, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	JAG52211AM	ARM52211DM	RAZ52211DM	GPSMB501			
			AR1220W/AR1220VW/AR151/AR16/AR158	802.11 b/g/n	2 RP-SMA (WiFi)		-	Best: W1043, IP65: W5028x, W5029x, IP67: W5098	-	-	-	-			
			AR161/AR169	4G/3G/2G (2), 802.11 b/g/n (2)	2 SMA (cellular), 2 RP-SMA (WLAN)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	Best: W1043, IP65: W5028x, W5029x, IP67: W5098	-	-	-	-			
Cisco	Cisco 4G ISR	Reliable and secure solution for M2M applications	C819(H)G-V-K9	LTE Band 13 (700 MHz) for Verizon	2 TNC (female)		Great: W5095, Best: W5084	-	-	-	-	-			
			C819(H)G-A-K9	LTE Band 17 (700 MHz) for AT&T											
			C819(H)G-G-K9	LTE Bands 1,3,7,8,20											
Cisco	Cisco 4G ISR	Easy to deploy and manage access to internet and wireless services	C88xG-4G-GA-K9	LTE Bands 1,3,7,8,20			Great: W5095, Best: W5084	-	-	-	-	-			
			C89xG(W)-LTE-GA-K9												
Moxa Americas, Inc.	Cellular IP Gateway	Industrial LTE Cellular gateway	OnCell G3470A-LTE Series	4G LTE for AT&T + 3G fallback (2), GPS (1)	2 SMA (cellular), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	Glass: GPSGMSMA, Direct: GPSDM08, Magnetic: GPS0010, NMO: GPSNMO10	JAG32011DM	ARM32011DM	RAZ32011DM	GPSMB301			
		Compact quad-band gateway	OnCell G3151	3G GSM/GPRS	1 SMA (cellular)		Great: SPDA24700/2700, Best: W5095K	-	-	-	-	-			
	Single-Radio Wireless AP/Bridge/Client	Industrial 900MHz wireless AP/bridge/client	AWK-3191	900MHz	1 RP-SMA (900MHz)		Great: W1063, Best: W5012	-	-	-	-	-	-		
		Industrial Wireless AP/bridge/client	AWK-3131A	802.11a/b/g/n	2 RP-SMA (WiFi)		-	Best: W1043, IP65: W5028x, W5029x, IP67: W5098	JAG20201DM	ARM20201DM	RAZ20201DM	GPSMB501			
	Entry-level industrial wireless AP/client	AWK-1131A	802.11a/b/g/n	2 RP-SMA (WiFi)		-	Best: W1043, IP65: W5028x, W5029x, IP67: W5098	JAG20201DM	ARM20201DM	RAZ20201DM	GPSMB501				

Part Number Naming Rules														
A	R	M	4	2	1	1	1	D	M	A	C	A		
Three Letters for Antenna Family			No. of all cables	No. of LTE Ant	No. of WiFi Ant	No. of GNSS Ant	Color Code: 1: Black 2: White	Mounting Options: DM: Direct Mount MM: Magnetic Mount AM: Adhesive Mount		Optional P/N for OEM or special customer request.				
Available Antenna Family Abbreviation			ARM	ARMADILLO	JAG	JAGUAR (LPMB)	RAZ	RAZORBACK	PAN	PANTHER (GPSMB)	SKF	SHARK FIN (GPSDM)	DSC	DISC (W4165)

Default Cable assembly for Catalog												
Family	Cable length	Cable type						Connector type				
		LTE/ISM	WiFi	GNSS	LTE/ISM	WiFi	GNSS	SMA	RP-SMA	SMA	GNSS	
ARM	17ft	LMR195	LMR195	RG174	SMA	RP-SMA	SMA					
RAZ	17ft	LMR195	LMR195	RG174	SMA	RP-SMA	SMA					
PAN	17ft	RG58	RG58	RG174	SMA	RP-SMA	SMA					
SKF	17ft	RG58	RG58	RG174	SMA	RP-SMA	SMA					
JAG	10ft	LMR195	LMR195	RG174	SMA	RP-SMA	SMA					
DSC	13ft	RG58	NA	RG174	SMA	NA	SMA					

MFC	Production line	Category	Model	Application	External Ant. Connector	Photo	Cellular WWAN	GPS or WiFi	No Ground Plane	Low Profile	Best Performance	Balanced Performance		
PEP/WAVE	MAX Singular Cellular router	4G LTE Router	MAX BR1 Classic	4G LTE with 3G fallback (2), WiFi (1), GPS (1)	2 SMA (cellular), 1 RP-SMA (WiFi), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029x, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	GPSLPMB401	ARM42111DM	RAZ42111DM	GPSMB501		
			MAX BR1 MK2	4G LTE with 3G fallback (2), WiFi (2), GPS (1)	2 SMA (cellular), 2 RP-SMA (WiFi), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	JAG52211DM	ARM52211DM	RAZ52211DM	GPSMB501		
		Compact Mobile WiFi Router	MAX BR1 Slim	4G LTE with 3G fallback (2), WiFi (1), GPS (1)	2 SMA (Cellular), 1 RP-SMA (WiFi), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	GPSLPMB401	ARM42111DM	RAZ42111DM	GPSMB501		
		4G LTE M2M Specialist	MAX MR1 Mini	4G LTE with 3G fallback (2), WiFi (1), GPS (1)	2 SMA (cellular), 1 RP-SMA (WiFi), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	GPSLPMB401	ARM42111DM	RAZ42111DM	GPSMB501		
		4G LTE/Broadband	MAX BR1 ENT	4G LTE with 3G fallback (2), GPS (1)	2 SMA (Cellular), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	Direct: GPSDM08, Magnetic: GPS0010, NMO: GPSNMO10	JAG32011DM	ARM32011DM	RAZ32011DM	GPSMB301		
		Cellular Branch Networking Router	MAX BR1 Pro	4G LTE with 3G fallback (2), WiFi (2), GPS (1)	2 SMA (cellular), 2 RP-SMA (WiFi), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	JAG52211DM	ARM52211DM	RAZ52211DM	GPSMB501		
	MAX Transit	Transportation WiFi	MAX Transit	4G LTE with 3G fallback (2 + 2 Opt.), WiFi (2), GPS (1)	2 SMA (WWAN1), 2 SMA (WWAN2, Opt.), 2 RP-SMA (WiFi), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	A set of one JAG52211DM and optional W1919	A set of one ARM52211DM and optional ARM22001DM	A set of one RAZ52211DM and optional RAZ22001DM	A set of one GPSMB501 and optional GPSMB301		
				MAX HD2	4G LTE with 3G fallback (4), WiFi (4), GPS (1)	2 SMA (WWAN1), 2 SMA (WWAN2), 4 RP-SMA (WiFi), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	A set of one JAG52211DM and one LPMB401	A set of one ARM52211DM and one ARM42201DM	A set of one RAZ52211DM and one RAZ42201DM	A set of one GPSMB501 and one GPSMB501	
		MAX Multi-Cellular Router	Mobile Router	MAX HD2 mini	4G LTE with 3G fallback (4), GPS (1)	2 SMA (WWAN1), 2 SMA (WWAN2), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	A set of one JAG32011DM and one W1919	A set of one ARM32011DM and one ARM22001DM	A set of one RAZ32011DM and one RAZ22001DM	A set of one GPSMB301 and one GPSMB301	
				MAX HD4	4G LTE with 3G fallback (8), WiFi (4), GPS (1)	2 SMA (WWAN1), 2 SMA (WWAN2), 2 SMA (WWAN3), 4 RP-SMA (WiFi), 1 SMA (GPS)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	WiFi: W1043, W5028x, W5029, W5098 GPS: GPSGMSMA, GPSDM08, GPS0010	A set of one JAG62311DM, one JAG32101DM, and two W1919	A set of one ARM62311DM, one ARM32101DM, and ARM RAZ22001DM	A set of one RAZ62311DM, one RAZ32101DM, and two RAZ22001DM	A set of two GPSMB501 and two GPSMB301	
				MAX On-The-Go	WiFi	1 RP-SMA (WiFi)		-	-	-	-	-	-	-
				MAX 700	WiFi	4 RP-SMA (WiFi)		-	-	-	A set of two JAG20201DM	A set of two ARM20201DM	A set of two RAZ20201DM	A set of two GPSMB501
	MAX Outdoor Router	Outdoor Router	MAX BR1 IP55	4G LTE with 3G fallback	2 SMA (cellular)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	-	-	-	-		
			MAX BR2 IP55	4G LTE with 3G fallback	2 SMA (WWAN1), 2 SMA (WWAN2)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	-	-	-	-		
			MAX HD2 IP67	4G LTE with 3G fallback	2 SMA (WWAN1), 2 SMA (WWAN2)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700	-	-	-	-	-		
	GE MDS	Compact Industrial Routers	Industrial Router with Dual WAN-Radios	MDS Orbit MCR	900MHz Unlicensed (1) with WiFi (1) and 4G/3G (2 Opt.)	1 TNC (900MHz), 2 SMA (cellular, opt.), 1 RP-SMA (WiFi)		Great: SPDA24700/2700, Best: W5095K, MIMO: WA700/2700, 900MHz: W5084, W5095	Best: W1043, IP65: W5028x, W5029x IP67: W5098	-	-	-	-	
			Industrial Router with Single WAN-Radio	MDS Orbit ECR	900MHz Unlicensed (1) with WiFi (1)	1 TNC (900MHz), 1 RP-SMA (WiFi)		900MHz Great: W5095, 900MHz Best: W5084	Best: W1043, IP65: W5028x, W5029x IP67: W5098	-	-	-	-	
	Trimble	Industrial Gateway	connected site gateway	SNM941	4G (2), WiFi (1), and GNSS (1)	1 TNC (4G), 1 RP-SMA (4G), 1 RP-TNC (WiFi), 1 SMA (GNSS)		W5095 (TNC)	GNSS: W1094	GPSLPMB401TR (Adhesive Mount) Add LPMB4BRACKETMM for Magnetic Mount	ARMZ4211DMTR ARM4211AMTR ARM4211MMTR	RAZ4211DMTR RAZ4211AMTR RAZ4211MMTR	GPSMB401TR (Direct Mount) Add GPSMBMM for Magnetic Mount	
			connected site gateway	SNM940	4G (1), WiFi (1), and GNSS (1)	1 TNC (4G), 1 RP-TNC (WiFi), 1 SMA (GNSS)		W5095 (TNC)	GNSS: W1094	GPSLPMB301TR (Adhesive Mount) Add LPMB4BRACKETMM for Magnetic Mount	ARMZ3111DMTR ARM3111AMTR ARM3111MMTR	RAZ3111DMTR RAZ3111AMTR RAZ3111MMTR	GPSMB301TR (Direct Mount) Add GPSMBMM for Magnetic Mount	
			connected site gateway	SNM451	3G (1)	1 SMA (3G)		SPDA24700/2700 (SMA)	-	SB698SMAXX	W1979T15 (with 15ft cable)	-	-	

Note: Modems have Jack (female) type connectors as a default. Pulse antenna cables have plug (male) type connectors as a default.

*All RAZ, ARM, and JAG type antennas can be ordered with up to 2 LTE antennas, up to 3 WiFi antennas, and up to 1 GNSS antenna, as well as colored black or white. Antennas also come in three mounting styles, Direct Mount (DM), Adhesive Mount (AM), and Magnetic Mount (MM). These antennas can be ordered following the adjacent simplified part naming structure for customer's particular needs and ease of use.