

Cellular Modem/Gateway: Cross-Reference Table

MFC	Production Line	Model	Application	External Antenna Connector	Cellular WWAN	GPS or WiFi	Alternative Option
Sierra Wireless	Airlink Gateway	GX450	4G (2); GPS (1); WiFi(OPT)	3x SMA (Primary; secondary/ Diversity; GPS), Optional 1x SMA (WiFi @front)	GPSMB301(Base), GPSMB501 for Wifi option. (or Making GPSMB401 for 2x LTE + 1x GPS + 1x WiFi)		GPSMB501 (vehicular roof mount) or GPSLPMB4 (Non metal surface, 2LTE+1WiFi +GNSS)
		GX400	3G (2); GPS (1); WiFi(OPT, 1)				
		ES450	4G (2)	2x SMA (Primary; secondary/ Diversity)	SPDA24700/2700	-	WA700/2700 (MIMO LTE, non metallic surface)
		LS300	3G (2) or 3G(1); GPS(1)	2x SMA (Primary; GPS/Diversity)	SPDA24700/2700	GPSGMSMA (dash or glass mount), GPSDM08(direct mount), GPS0010 (mag mount)	3G + GPS case: GPSSB800/2170FS (stealth blade type, Need to modify with SMA connector)
		Raven RV50	4G(2); GPS(1)	3x SMA (Primary; Diversity; GPS)	SPDA24700/2700		WA700/2700 (MIMO LTE, non metallic surface)
		Raven XE	3G	2x SMA (cellular; receive diversity)	SPDA24700/2700	-	
		Raven XT	2G/3G (Quad-band)	1x SMA (cellular)	SPDA24700/2700	-	
	InMotion Solutions	oMG	Built-in GPS	VAN: SMA(1), RP-SMA (up to 10) WAN: LTE	GPSMB301(Base), GPSMB501 for Wifi option.		GPSMB501 or GPSLPMB4 (Non metal surface, 2x LTE + 1x WiFi +GNSS)
CalAmp	Commercial Gateway	CDM-5030	3G/4G	2x SMA (Main; Diversity)	SPDA24700/2700	-	WA700/2700 (MIMO LTE, non metallic surface)
	Industrial Routers	Fusion	4G/3G(4), GPS(1), WiFi(3)	3x RP-SMA (WiFi), 2x SMA (WWAN0), 2x SMA (WWAN1), 1x SMA (GPS)	1 GPSMB301(for WWAM0 + GPS), GPSMB501 (for WWAM1+ 2 WiFi) 1		GPSLPMB4
		Vanguard 3000	3G, Opt (GPS, WiFi)	2x SMA (Main; Diversity) Opt: 1x SMA(GPS), 1x RP-SMA(WiFi)	GPSMB301(Base), GPSMB501 for Wifi option.		GPSMB501 or GPSLPMB4 (Non metal surface, 2LTE+1WiFi +GNSS)
		Vanguard 5530	4G, Opt (GPS, WiFi)	2x SMA (Main; Diversity) Opt:1 SMA(GPS), 1x RP-SMA(WiFi)			
	Commercial Routers	LMU-5530	3G/4G, GPS, WiFi	2x SMA (Main; Diversity), 1 SMA(GPS), 1x RP-SMA(WiFi)	GPSMB501		GPSMB501 or GPSLPMB4 (Non metal surface, 2LTE+1WiFi +GNSS)

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Craddle point	IOT/M2M & Transportation solution	COR IBR350	4G/LTE	2x SMA (MAIN; AUX)	SPDA24700/2700	-	WA700/2700 (MIMO LTE, non metallic surface)
		COR IBR600	4G/LTE, 2.4G Wifi	2x SMA (MAIN, AUX), 2x RP-SMA (2.4G WiFi MiMo)	SPDA24700/2700	W1030 (small height), W1038 (3dBi),	GPSMB501 or GPSLPMB4 (Non metal surface, 2x LTE + 1x WiFi +GNSS)
		COR IBR1100	4G/LTE, 2.4/5GHZ Wifi, GPS	2x SMA (MAIN, AUX), 2x RP-SMA (Dual WiFi), 1x SMA (GPS)	GPSMB501(Outdoor)		Indoor: SPDA24700/2700, W1044
Redlion	Industrial WIFI radio	NTRON 702-W (IP30)	802.11a/b/g/n	3x antennas 2.4GHz & 5GHz (needs RPSMA male)	-	W1043 (RP-SMA)	-
		NTRON 702M12-W (IP67)			-	W5028 (RP-SMA, Right Angle)	-
	RAM 6900 industrial cellular RTU	RAM6900/ RAM6901/ RAM6921/RA-M6901EB	4G with fall back to 3G + GPS	2x antennas (needs SMA male)	SPDA24700/2700	GPSGMSMA (dash or glass mount), GPSDM08 (direct mount), GPS0010 (mag mount)	GPSMB301 (2 LTE+ 1 GPS, roof direct mount), WA700/2700 (MIMO LTE, non metallic surface)
	RAM 6600 industrial cellular RTU	RAM6600/ RAM6601/ RAM6621/RA-M6601EB	3G CDMA (for sprint/VZ only 900/1900MHz) - for toher operators	2x antennas (needs SMA male)	SPDA24700/2700 W1900	-	GPSMB301 (2 LTE+ 1 GPS, roof direct mount), WA700/2700 (MIMO LTE, non metallic surface)
	RAM 6800 industrial cellular RTU	RAM6800/ RAM6801/ RAM6821/RA-M6801EB	3G GSM	2x antennas (needs SMA male)	SPDA24700/2700 W1900	-	GPSMB301 (2 LTE+ 1 GPS, roof direct mount), WA700/2700 (MIMO LTE, non metallic surface)
	RAM 9000 industrial cellular RTU	RAM99xx	4G (2) +wifi (1)+GPS (1)	1x for GPS (SMA male), 2x for 4G (SMA male), 1x for Wifi (RPSMA male)	SPDA24700/2700	GPSGMSMA (dash or glass mount), GPSDM08(direct mount), GPS0010 (mag mount)	GPSMB501 (roof mount) or GPSLPMB4 (Non metal surface, 2LTE+1WiFi +GNSS)
	IndustrialPro SN 6000 Cellular Routers	SN6900/SN6901/ SN6921/ SN6901EB/ SN6700/SN6701/ SN6701EB/SN6721	4G	2x antennas (needs SMA male)	SPDA24700/2700	-	GPSMB301 (2 LTE), SLPT698/2170DMN, LPT698/2700DMN, W5067 (IP67, a jump cable between antenna and modem)
	IndustrialPro SN 6000 Cellular Routers	SN6600/SN6601/ SN6621/SN6601EB	3G CDMA	2x antennas (needs SMA male) - 850/900/1800/1900/2100MHz	SPDA24700/2700 W1900	-	GPSMB301 (2 LTE), SLPT698/2170DMN, LPT698/2700DMN, RO8063/21704NF (IP67, a jump cable between antenna and modem)
	IndustrialPro SN 6000 Cellular Routers	SN6800/SN6801/ SN6821/SN6801EB	3G GSM	2x antennas (needs SMA male) 850/900/1800/1900/2100MHz	SPDA24700/2700 W1900	-	

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Digi Spectrum	4G cellular LTE router	digi transport WR31	4G	2x SMA male	SPDA24700/2700	-	-
	3G/4G cellular LTE router	digi transport WR11	3G/4G cellular LTE router	2x SMA male	SPDA24700/2700	-	-
	Cellular Router	digi transport WR21	800/850/900/1800/1900/2100/2600 MHz; 3G fall back to 850/900/1900/2100 MHz and 2G fall back to 850/900/1800/1900 MHz	2x SMA male	SPDA24700/2700	-	-
	Ethernet gateway	connect port X2	802.15.4: Xbee 2.4GHz or 868MHz or 915MHz	need RPSMA male	-	-ISM2.4GHz: W1030(2dBi), W1027(3dBi) W5001(1.5dBi,IP65) -ISM868+915MHz: W1063(3dBi), W5021(2dBi,IP65)	-
	Enterprise Class Cellular Router for Remote and Mobile Applications	digi transport WR41	800/850/900/1800/1900/2100/2600 MHz; 3G fall back to 850/900/1900/2100 MHz and 2G fall back to 850/900/1800/1900 MHz	2x SMA for 4G +2x RPSMA for WiFi +optional 1x SMA for GPS	SPDA24700/2700	-WiFi: W1043, W5028 (right angle) -GPS: GPSGMSMA (dash or glass mount), GPSDM08 (direct mount), GPS0010 (mag mount)	GPSLPMB4 (Non metal surface, 2LTE+1WiFi +GNSS), GPSMB501 (vehicular roof mount)
	Enterprise Class, Commercial Grade Wi-Fi to Cellular Router with Interface Options	digi transport WR44	800/850/900/1800/1900/2100/2600 MHz; 3G fall back to 850/900/1900/2100MHz and 2G fall back to 850/900/1800/1900 MHz	2x SMA for 4G +2x RPSMA for WiFi +optional 1x SMA for GPS			
	Small Cellular Routers with Integrated VPN	digi connect WAN family	HSPA+ (U9) - 850/900/1700 (AWS)/1900/2100 MHz	2x male SMA connectors needed	W1900 (0.5dBi,50mm) SPDA24700/2700	-	-
	Digi Utility Communication Hub with 4G LTE	Gateway for Distribution Automation	2x LTE and 1x WiFi	-	LPT698/2700DMN (IP67, need a jump cable to connect antenna and modem)	W5001(1.5dBi,IP65)	-
	ConnectPort X4/X4 H	ConnectPort X4/X4 H	2G/3G (850/900/1700 (AWS)/1900/2100 MHz) + ZigBee (2.4 GHz), DigiMesh® (2.4 GHz or 900 MHz), XBee-PRO® 900HP, 802.15.4 or 868	1 or 2 SMA male antenna connector needed + 1RPSMA female for Xbee 2.4GHz/868 or 915MHz	W1900 (0.5dBi,50mm) SPDA24700/2700	-ISM2.4GHz: W1030(2dBi), W1027(3dBi), W5001(1.5dBi,IP65) -ISM868+915MHz: W1063(3dBi), W5021(2dBi,IP65)	-

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Cloudgate	Cellular gateway	3G America, 3G EMEA, 3G JP/APAC	3G EVDO (800/1900) or 3G 850/900/AWS/1900/2100 MHz HSPA+ (3G main + diversity or 3G main +GPS with optional 802.11 a/b/g/n)	1x SMA male for 3G 1x SMA male for 3G or GPS, and optional 1x RPSMA for WIFI	W1900 SPDA24700/2700	-WiFi: W1043, W5028 (right angle) -GPS: GPSGMSMA (dash or glass mount), GPSDM08 (direct mount), GPS0010 (mag mount)	-
	Cellular gateway	LTE WW	All Supported LTE Bands: 1-5, 7, 8, 13, 17, 18-20 (700/800/850/900/1800/1900/2100/2600/AWS), 2G/3G 1(3G/4G main + diversity or 3G/4G main + GPS/GNSS with optional 802.11 a/b/g/n)	1x SMA male for 3G/4G 1x SMA male for 3G/4G or GPS, and optional 1x RPSMA for WIFI	SPDA24700/2700	-	-
MultiTech	Programmable Gateway for the Internet of Things	MTCDT-Lxxx	LTE: 800(B20)/850(B5)/2100(B1), HSPA+ 1800/1900/2100	2x SMA male	SPDA24700/2700	-	-
	Cellular Modems	Multiconnect cell 100 series	models: MTC-H5 (HSPA+ 850/900/1700/1900/2100) MTC-EV3 (800/1900) MTC-G3 (GPRS 850/900/1800/1900) MTC-LAT1 (4G 700/850/1700/1900 or 3G 850/1900 or 2G 850/1900) MTC-C2 (800/1900) 1xRTT MTC-LVW2 LTE 700/1700 MTC-LEU1 (4G 800/1800/2600 or 3G 850/900/2100 or 2G 900/1800)	2x SMA male connector needed	SPDA24700/2700	-	-
	Cellular routers	Multiconnect rcell 100 series	HSPA+ and option for WIFI / GPS / BT: MTR-H6 (3G 850/900/2100 or 2G 850/900/1800/1900) MTR-EV3 EVDO (800/1900) MTR-G3 GPRS (850/900/1800/1900) MTR-C2 800/1900 RTT MTR-H6 HSPA (3G 850/900/2100 or 2G 850/900/1800/1900) MTR-EV3 EVDO 800/1900 MTR-G3 GPRS 850/900/1800/1900 MTR-C2 RTT (800/1900)	1x SMA male for 2G/3G/4G, 1x SMA male for GPS, 1x RPSMA for WIFI,	SPDA24700/2700	-WiFi: W1043, W5028 (right angle) -GPS: GPSGMSMA (dash or glass mount), GPSDM08 (direct mount), GPS0010 (mag mount)	GPSMB501 (vehicular roof mount) or GPSLPMB4 (Non metal surface, 2x LTE + 1x WiFi + GNSS)
	LTE Cellular routers	Multiconnect rcell 500 series	MTR5-LEU2 (LTE FDD: B1/B2/B3/ B5/B7/B8/B20 3G: 850/900/1900/2100 MHz 2G: 850/900/1800/1900 MHz) + 802.11b/g/n	2x 4G antennas + 2x RPSMA for wifi 2.4GHz	SPDA24700/2700	W1030 (86mm) W1027 (110mm) W1038 (170mm) (Bent position)	-

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Teledesign systems	Industrial Modem	TS2000	-	No antenna	-	-	-
	Industrial Modem	TS4000	-VHF: TS4000-05C - UHF: TS4000-05E,TS4000-05F, TS4000-02A, TS4000-05B -900MHz (926-960MHz) : TS4000-05D	1 connector: BNC(Standard), TNC(watertight), N(optional), SMA(optional)	-VHF: NMOWB150B, NMOWBQB - UHF: LM406C, OM406BCO, SB450, NMOWB450C, LP490NMO, -900MHz: LM900, NMOQW900, LP800, NMO55E900B, MS3E900, MM5T900SMA, OM900, LPT800/900NMO	-Triple band VHF/UHF/ 900MHz: NMO150/450/800, RO3ISMNM	
WESTERMO	Industrial routers		MRD455 4G	max 2x SMA + 1x GPS	SPDA24700/2700	-GPS: GPSGMSMA (dash or glass mount)	WA700/2700
			MRD355 3G MRD315 3G router	max 2x SMA + 1x GPS	SPDA24700/2700 W1900		
			MRD305DIN 3G M2M MR210 2G router MR260 3G router MR270 3G router	Max 2x SMA	SPDA24700/2700 W1900	-	-
	GPRS Modem		GDW11 GDW11 485 MRD series	1x SMA	SPDA24700/2700 W1900	-	W1088 is stand alone (desktop) type 3G antenna. However, it is EOL now. Need to discuss to revive W1088.
Motorola Solutions	LTE Modem	VML750	4G LTE with B14, GPS, WiFi	2x SMA (WWAN1), 2x SMA (WWAN2), 1x SMA (GPS)	GPSMB301 (WWAN2 and GPS), GPSMB501 (WWAN1/ Wifi)	GPSLPMB4 (Non metal roof surface, 2x LTE + 1x WiFi +GNSS)	-

Experience the Difference...

Pulse/Larsen is a leading global antenna and wireless solution supplier.

We provide solutions that reflect our far-reaching understanding of antenna and RF technology.

Pulse offers antennas covering 2G/3G/4G LTE , WLAN (WiFi), Zigbee, Bluetooth, GPS/Glonass/Compass, ISM, VHF/UHF, NFC and custom applications. Pulse/Larsen is your trusted antenna partner. Having shipped over 2 billion antennas during our 50 years in business.

We supply consistent high-quality products by owning and fully controlling our own factories in both China and the United States.

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